



Bracklyn Wind Farm

Annex 5.4:
Results of Ornithological Surveys
- Vantage Point Flight Line Maps

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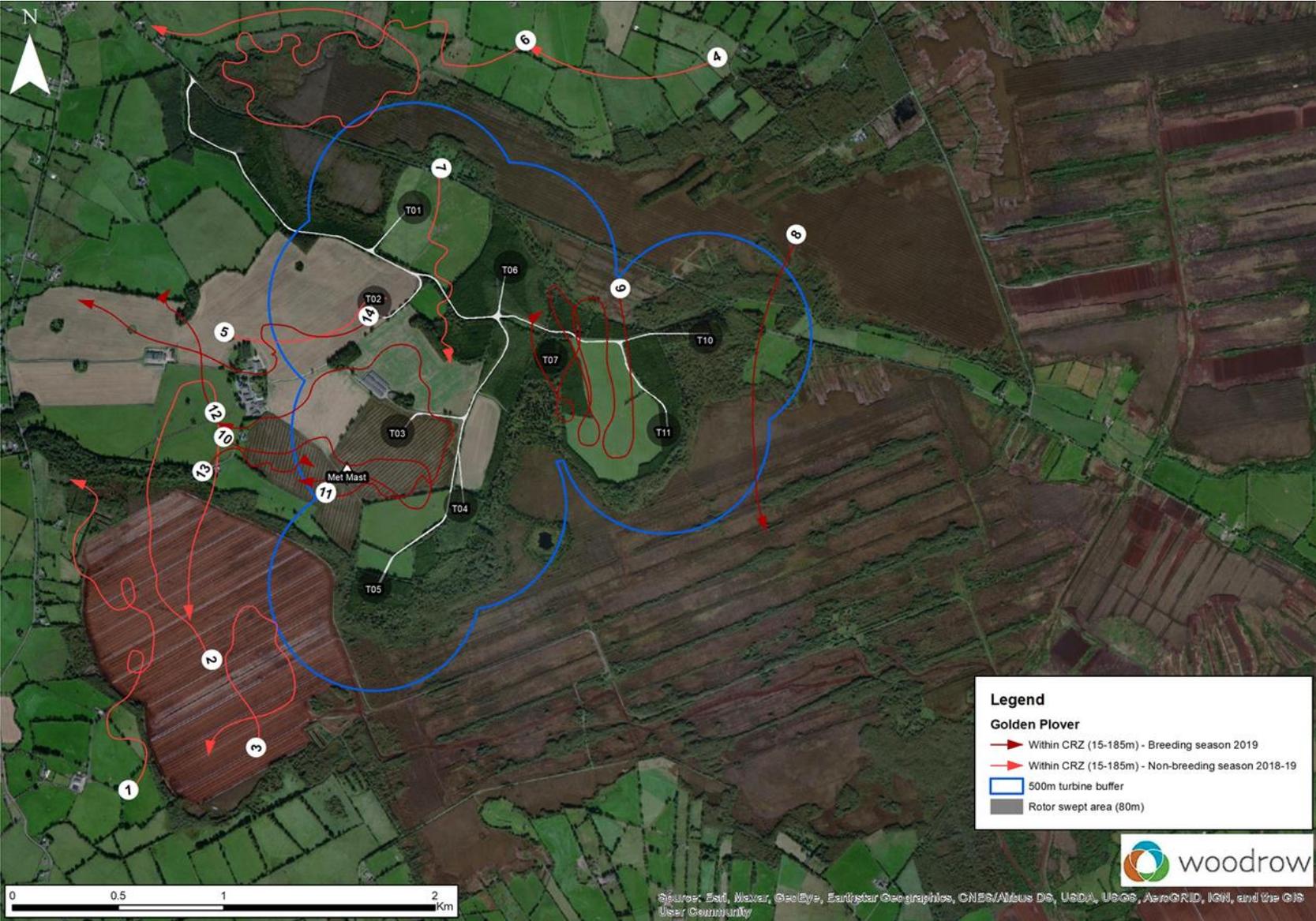
List of Figures

Figure A5.4.1: Golden plover flight lines Year 1 (Oct-2018 to Apr-2019)	1
Figure A5.4.2: Golden plover flight lines Year 2 Oct-2019 to Mar-2020	2
Figure A5.4.3: All geese & swan flights (Oct-2018 to Aug-2020).....	6
Figure A5.4.4: All lapwing flight lines (Oct-2018 to Aug-2020)	8
Figure A5.4.5: All little egret, grey heron & cormorant flight lines (Oct-2018 to Aug-2020)	10
Figure A5.4.6: All flight lines for Annex I birds of prey & barn owl (Oct-2018 to Aug-2020)	12
Figure A5.4.7: Kestrel flight lines – non-breeding season 2018-19.....	14
Figure A5.4.8: Kestrel flight lines –breeding season 2019.....	15
Figure A5.4.9: Kestrel flight lines – non-breeding season 2019-20.....	16
Figure A5.4.10 Kestrel flight lines –breeding season 2020.....	17
Figure A5.4.11: All snipe, jack snipe & green sandpiper flight lines (Oct-2018 to Aug-2020).....	27
Figure A5.4.12: All mallard & teal flight lines (Oct-2018 to Aug-2020)	31
Figure A5.4.13: All gull flight lines (Oct-2018 to Aug-2020)	355
Figure A5.4.14: Buzzard flight lines – non-breeding season 2018-19	37
Figure A5.4.15: Buzzard flight lines – breeding season 2019.....	38
Figure A5.4.16: Buzzard flight lines – non-breeding season 2019-20	39
Figure A5.4.17: Buzzard flight lines – breeding season 2020.....	40
Figure A5.4.18: Sparrowhawk & goshawk flights in Year 1: Oct-2018 to Aug-2019.....	59
Figure A5.4.19: Sparrowhawk & goshawk flights in Year 2: Oct-2019 to Aug-2020.....	60

List of Tables

Table A5.4.1: Golden plover flights	3
Table A5.4.2: Geese & swan flights.....	7
Table A5.4.3: Lapwing flights	9
Table A5.4.4: Little egret, grey heron & cormorant flights	111
Table A5.4.5: Birds of prey & barn owl.....	13
Table A5.4.6: Kestrel flights	26
Table A5.4.7: Snipe, jack snipe & green sandpiper flights	30
Table A5.4.8: Mallard & teal flights	32
Table A5.4.9: Gull flights	36
Table A5.4.10: Buzzard flights.....	41
Table A5.4.11: Sparrowhawk & goshawk flights	61





Annex 5.4: Results of Ornithological Surveys – Vantage Point Flightline Maps

Figure A5.4.1: Golden plover flight lines Year 1 (Oct-2018 to Apr-2019)

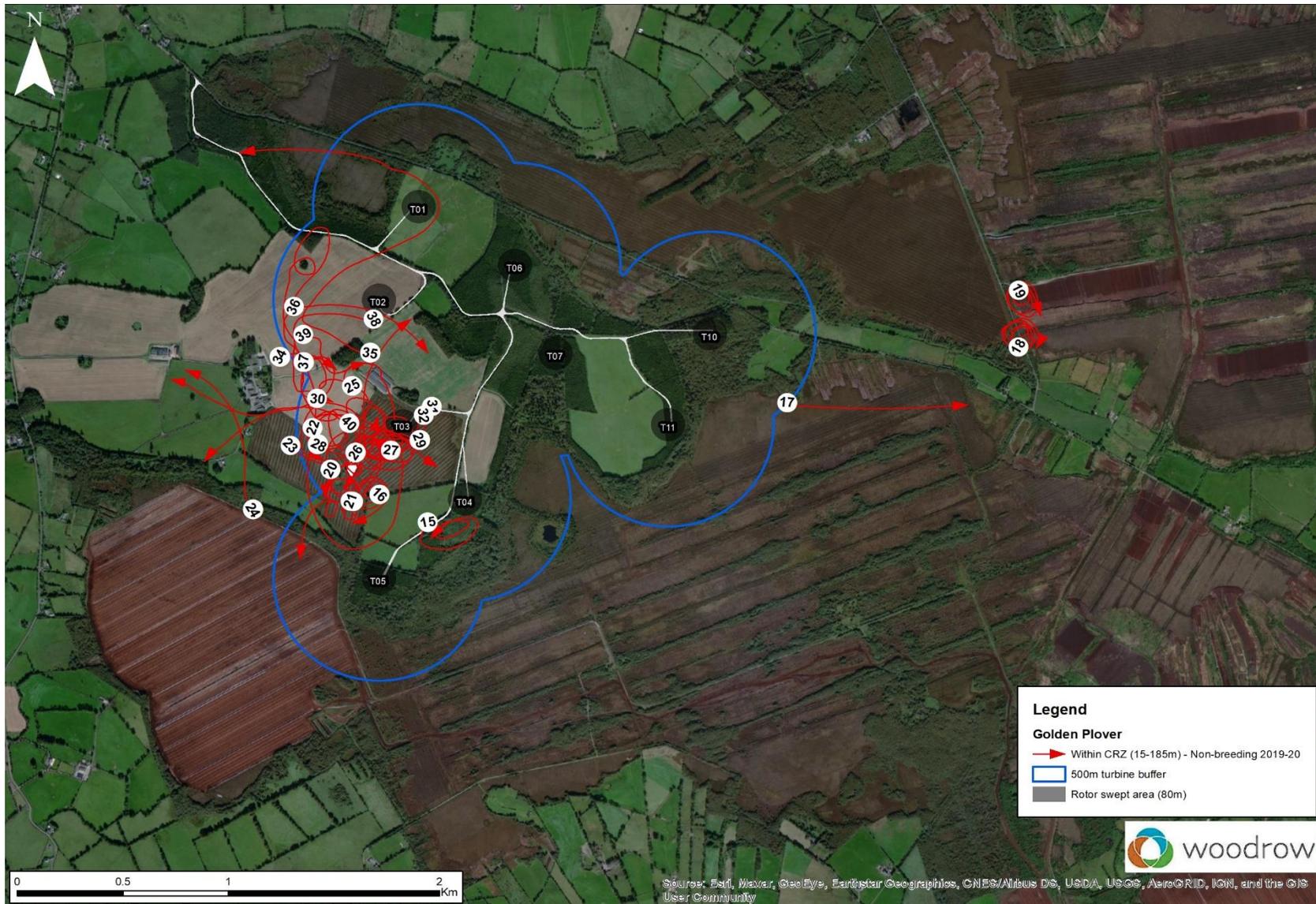


Figure A5.4.2: Golden plover flight lines Year 2 Oct-2019 to Mar-2020

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Non-breeding 2018-19	08/01/2019	1539	GP	140	100	80-100			
2	Non-breeding 2018-19	08/01/2019	1548	GP	140	100	40-100			
3	Non-breeding 2018-19	21/02/2019	1306	GP	400	150				
4	Non-breeding 2018-19	07/12/2018	1018	GP	100	180				
5	Non-breeding 2018-19	21/12/2018	1132	GP	1	60				
6	Non-breeding 2018-19	04/02/2019	1057	GP	29	100				
7	Non-breeding 2018-19	21/02/2019	1557	GP	7	80				
8	Breeding 2019	19/03/2019	1312	GP	5	80				
9	Breeding 2019	16/04/2019	1257	GP	200	70				
10	Breeding 2019	23/04/2019	1046	GP	16	30				
11	Breeding 2019	23/04/2019	1139	GP	24	40				
12	Breeding 2019	23/04/2019	1142	GP	24	80				
13	Breeding 2019	23/04/2019	1201	GP	22	30				
14	Breeding 2019	23/04/2019	1140	GP	22	50	30-60			
15	Non-breeding 2019-20	29/10/2019	1010	GP	55	150	150-175			
16	Non-breeding 2019-20	13/02/2020	1023	GP	65	100	100-150			circling
17	Non-breeding 2019-20	30/10/2019	950	GP	1	100	100			

18	Non-breeding 2019-20	14/02/2020	1520	GP	155	150	150-175			circling
19	Non-breeding 2019-20	14/02/2020	1555	GP	200	150	150-175			circling
20	Non-breeding 2019-20	10/10/2019	1320	GP	150	70	0-100			
21	Non-breeding 2019-20	10/10/2019	1400	GP	35	70	0-100			
22	Non-breeding 2019-20	10/10/2019	1410	GP	200	100	0-175			
23	Non-breeding 2019-20	15/11/2019	1015	GP	9	75	75			
24	Non-breeding 2019-20	23/12/2019	1225	GP	4	150	150-175			travelling
25	Non-breeding 2019-20	23/12/2019	1410	GP	11	50	0-100			circling
26	Non-breeding 2019-20	23/12/2019	1425	GP	26	90	0-175			circling
27	Non-breeding 2019-20	23/12/2019	1440	GP	12	90	0-175			circling
28	Non-breeding 2019-20	10/01/2020	1440	GP	2	75	0-75			travelling
29	Non-breeding 2019-20	10/01/2020	1455	GP	3	100	0-100			travelling
30	Non-breeding 2019-20	27/01/2020	1340	GP	130	100	0-175			circling
31	Non-breeding 2019-20	27/01/2020	1428	GP	31	100	10-200			circling
32	Non-breeding 2019-20	27/01/2020	1545	GP	5	100	0-100			circling
33	Non-breeding 2019-	26/02/2020	1506	GP	5	100	0-100			circling

	20									
34	Non-breeding 2019-20	01/10/2019	1420	GP	1	170	>170			
35	Non-breeding 2019-20	01/10/2019	1525	GP	12	150	150-175			
36	Non-breeding 2019-20	29/10/2019	1230	GP	35	50	20-50			
37	Non-breeding 2019-20	29/10/2019	1340	GP	100	100	50-150			
38	Non-breeding 2019-20	14/11/2019	1245	GP	65	175	175			
39	Non-breeding 2019-20	09/01/2020	1225	GP	6	100	100			travelling
40	Non-breeding 2019-20	09/01/2020	1340	GP	7	100	0-100			circling

Table A5.4.1: Golden plover flights

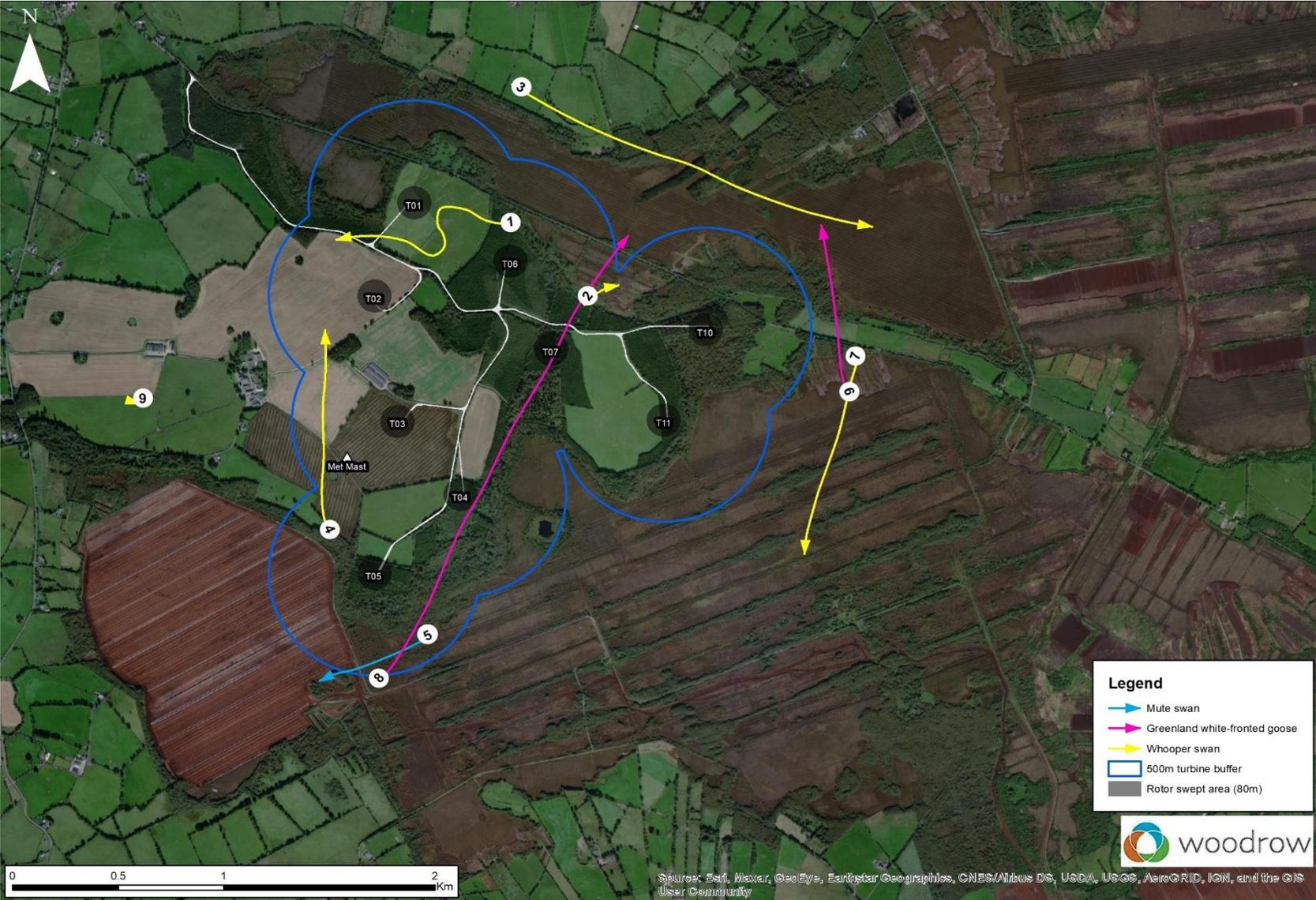


Figure A5.4.3: All geese & swan flights (Oct-2018 to Aug-2020)

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Non-breeding 2018-19	25/10/2018	1031	WS	2	40				
2	Non-breeding 2018-19	25/10/2018	1031	WS	2	30				
3	Non-breeding 2018-19	07/12/2018	840	WS	2	100				
4	Breeding 2019	19/03/2019	1827	WS	7	10				
5	Non-breeding 2019-20	11/12/2019	950	MS	1	75	75			travelling
6	Non-breeding 2019-20	15/11/2019	1308	WG	1	100	100			
7	Non-breeding 2019-20	23/12/2019	850	WS	4	100	100			travelling
8	Non-breeding 2019-20	02/10/2019	1425	WG	42	175	>175			
9	Non-breeding 2019-20	10/03/2020	1310	WS	1	0				

Table A5.4 2: Geese & swan flights



Figure A5.4.4: All lapwing flight lines (Oct-2018 to Aug-2020)

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Non-breeding 2018-19	21/02/2019	1554	L	16	80				
2	Breeding 2019	19/03/2019	1612	L	1	50				
3	Breeding 2019	19/03/2019	1613	L	1	50				
4	Breeding 2019	19/03/2019	1626	L	1	50				
6	Breeding 2019	19/03/2019	1636	L	1	30				
7	Breeding 2019	19/03/2019	1643	L	1	20				
8	Breeding 2019	19/03/2019	1650	L	2	10				
9	Breeding 2019	19/03/2019	1652	L	1	20				
10	Breeding 2019	19/03/2019	1655	L	1	50				
11	Breeding 2019	19/03/2019	1739	L	1	30				
12	Breeding 2019	19/03/2019	1739	L	1	30				
13	Breeding 2019	19/03/2019	1745	L	3	80				
14	Breeding 2019	25/03/2019	1501	L	1	20				
15	Breeding 2019	25/03/2019	1539	L	1	10				
16	Breeding 2019	25/03/2019	1615	L	1	30				
17	Breeding 2019	23/04/2019	1058	L	1	10				
18	Breeding 2019	23/04/2019	1139	L	1	30				
19	Breeding 2019	23/04/2019	1140	L	1	25	25			

Table A5.4.3: Lapwing flights

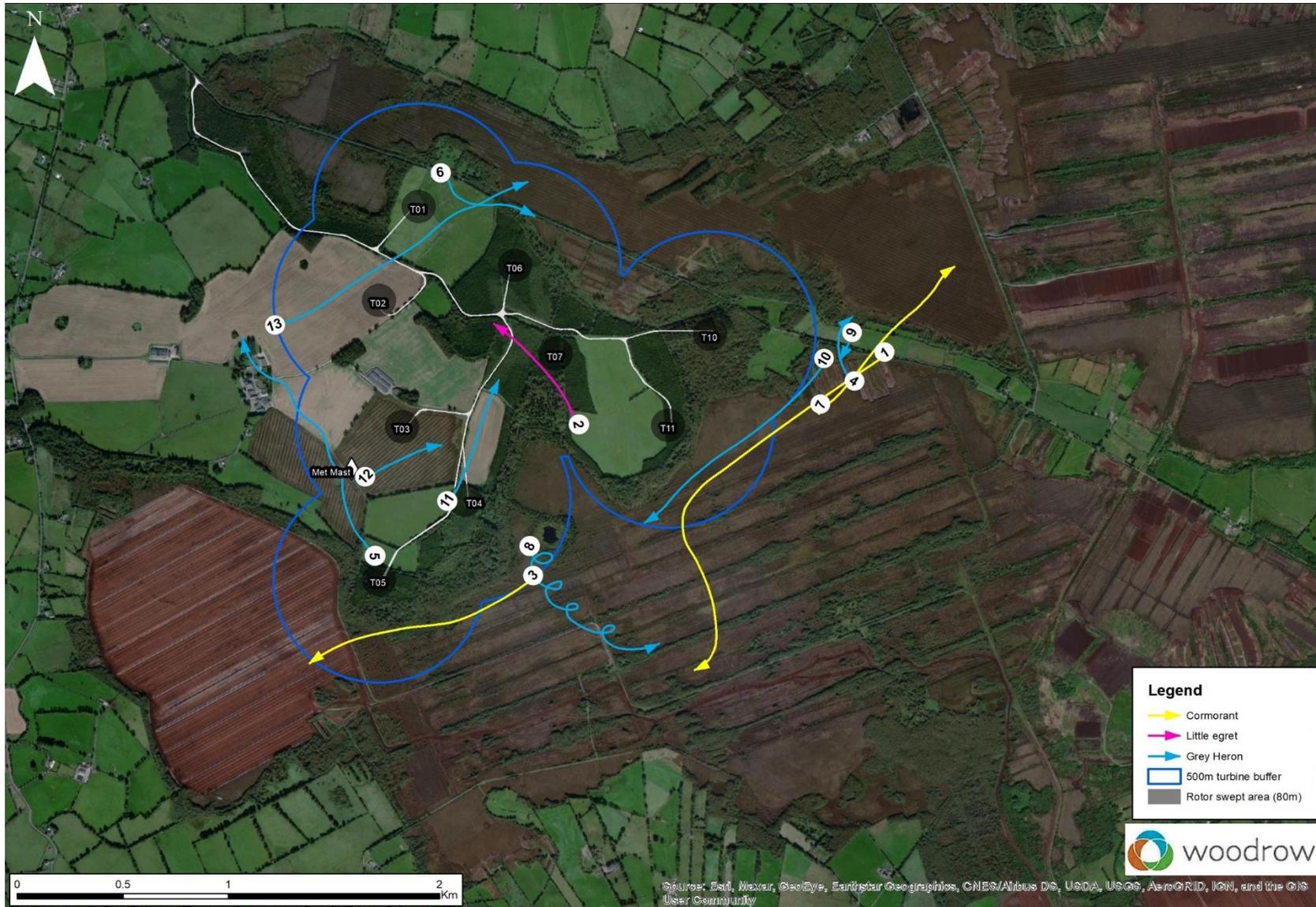


Figure A5.4.5: All little egret, grey heron & cormorant flight lines (Oct-2018 to Aug-2020)

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Non-breeding 2018-19	13/12/2018	1519	CA	1	40				
2	Non-breeding 2018-19	07/12/2018	1357	ET	1	50				
3	Non-breeding 2018-19	03/01/2019	1324	CA	1	50				
4	Breeding 2019	27/06/2019	1915	H	1	100				
5	Breeding 2019	23/04/2019	1220	H	1	40				
6	Breeding 2019	19/03/2019	1730	H	1	50				
7	Non-breeding 2019-20	15/11/2019	1415	CA	2	75	75			
8	Breeding 2020	27/04/2020	1000	H	1	100	100-150			travelling
9	Breeding 2020	10/06/2020	1928	H	1	25	0-25			travelling
10	Breeding 2020	10/06/2020	1936	H	1	25	0-25			travelling
11	Breeding 2020	14/08/2020	1230	H	1	50	25-50			travelling
12	Breeding 2020	21/08/2020	1140	H	1	50	5-50			travelling
13	Breeding 2020	10/08/2020	1230	H	1	50	50-75			travelling

Table A5.4.4: Little egret, grey heron & cormorant flights

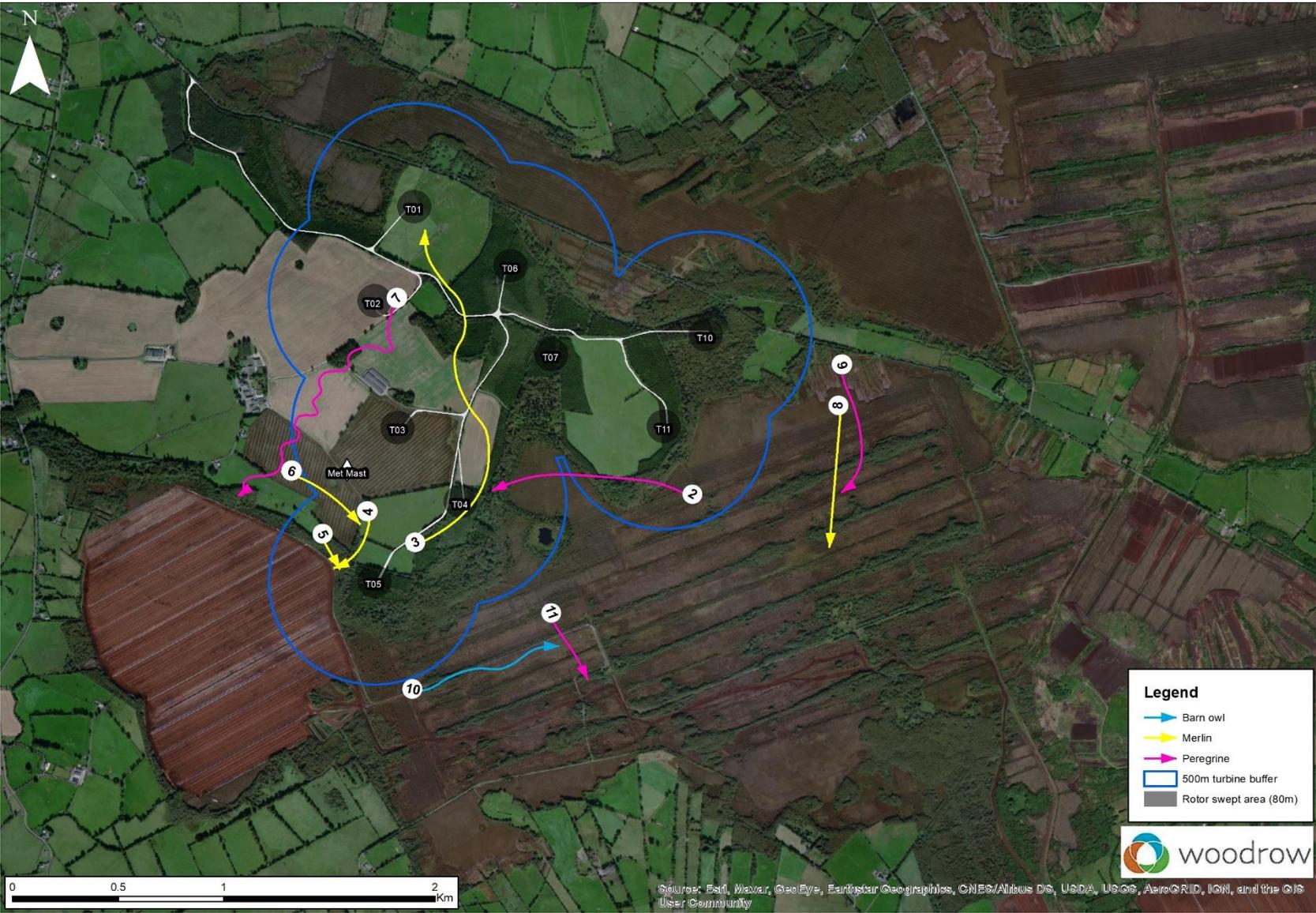


Figure A5.4.6: All flight lines for Annex I birds of prey & barn owl (Oct-2018 to Aug-2020)

Map reference	Season	Date	Time	BTO Code	Label	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
2	Non-breeding 2018-19	08/01/2019	1059	PE	2	1	40				
3	Non-breeding 2018-19	03/01/2019	1336	ML	3	1	12				
4	Non-breeding 2018-19	03/01/2019	1438	ML	4	1	10				
5	Non-breeding 2018-19	23/01/2019	1515	ML	5	1	15	15			
6	Non-breeding 2018-19	04/02/2019	1255	ML	6	1	10				
7	Non-breeding 2018-19	21/02/2019	1559	PE	7	1	25				
8	Non-breeding 2019-20	16/10/2019	950	ML	8	1	15	10-15	F	Juv.	
9	Non-breeding 2019-20	30/10/2019	1000	PE	9	1	75	50-75			
10	Breeding 2020	20/03/2020	1824	BO	10	1	3	3-10	M	AD	Travelling
11	Breeding 2020	17/08/2020	940	PE	11	1	30	25-40			travelling

Table A5.4.5: Birds of prey & barn owl

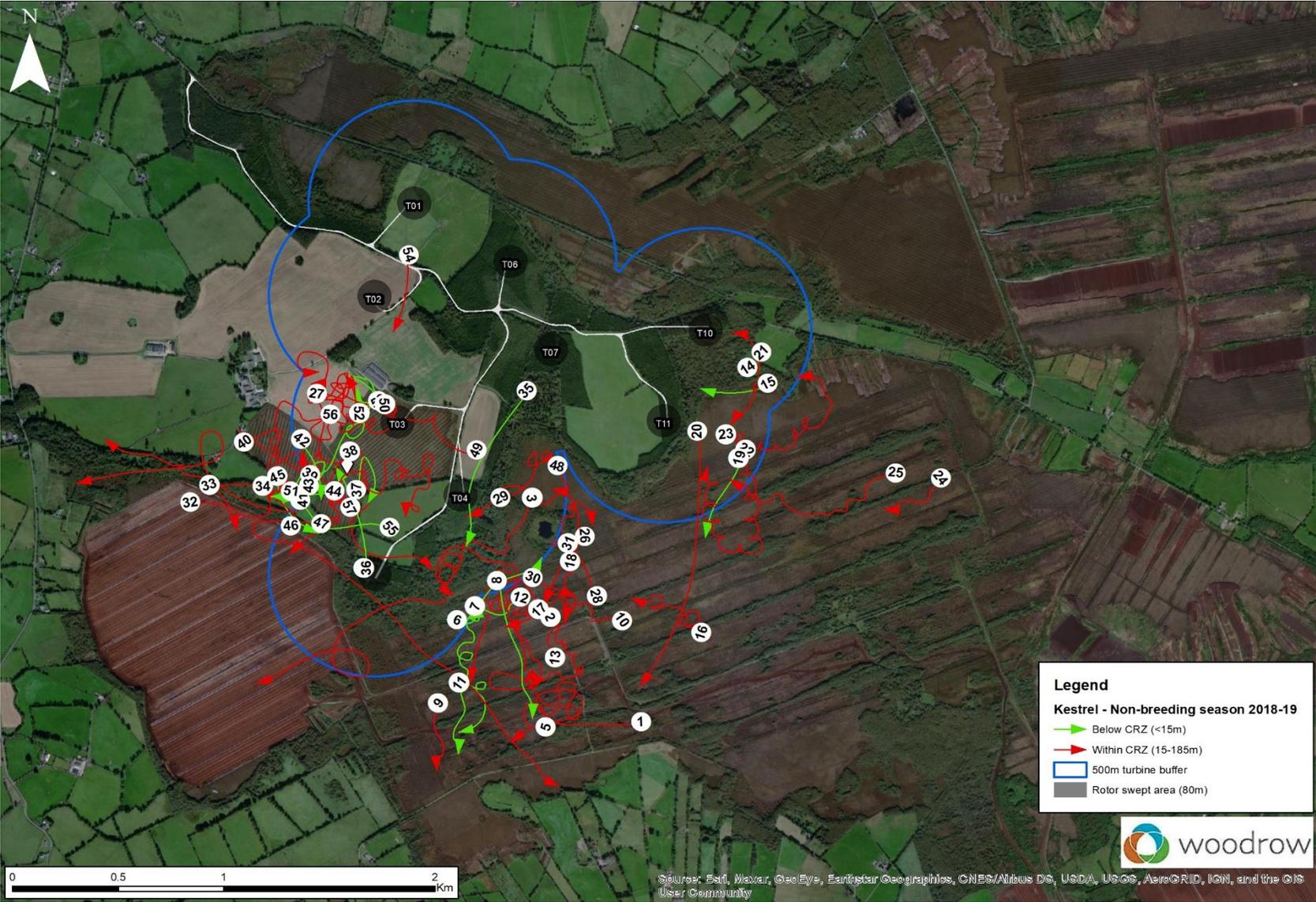


Figure A5.4.7: Kestrel flight lines – non-breeding season 2018-19

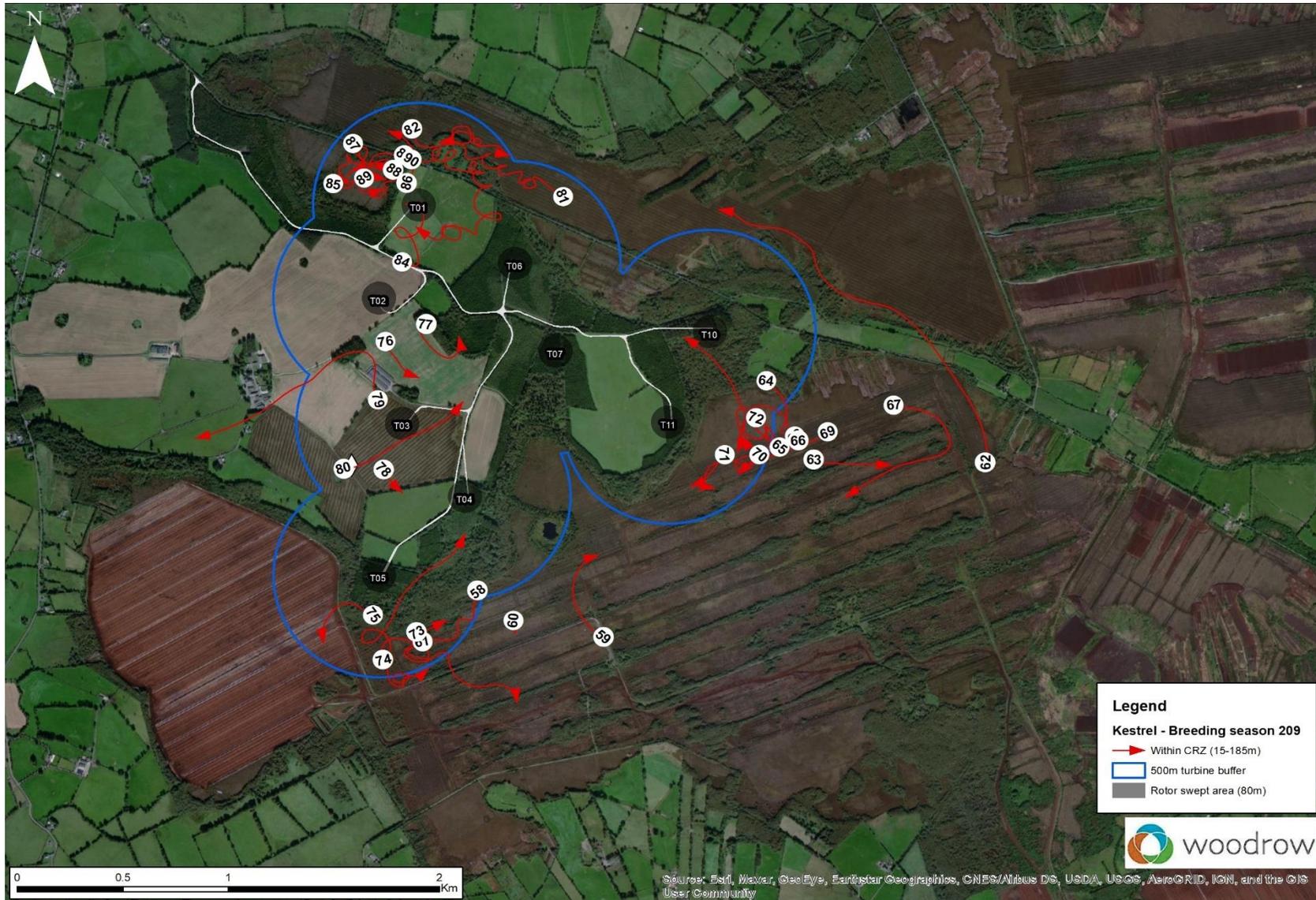


Figure A5.4.8: Kestrel flight lines –breeding season 2019

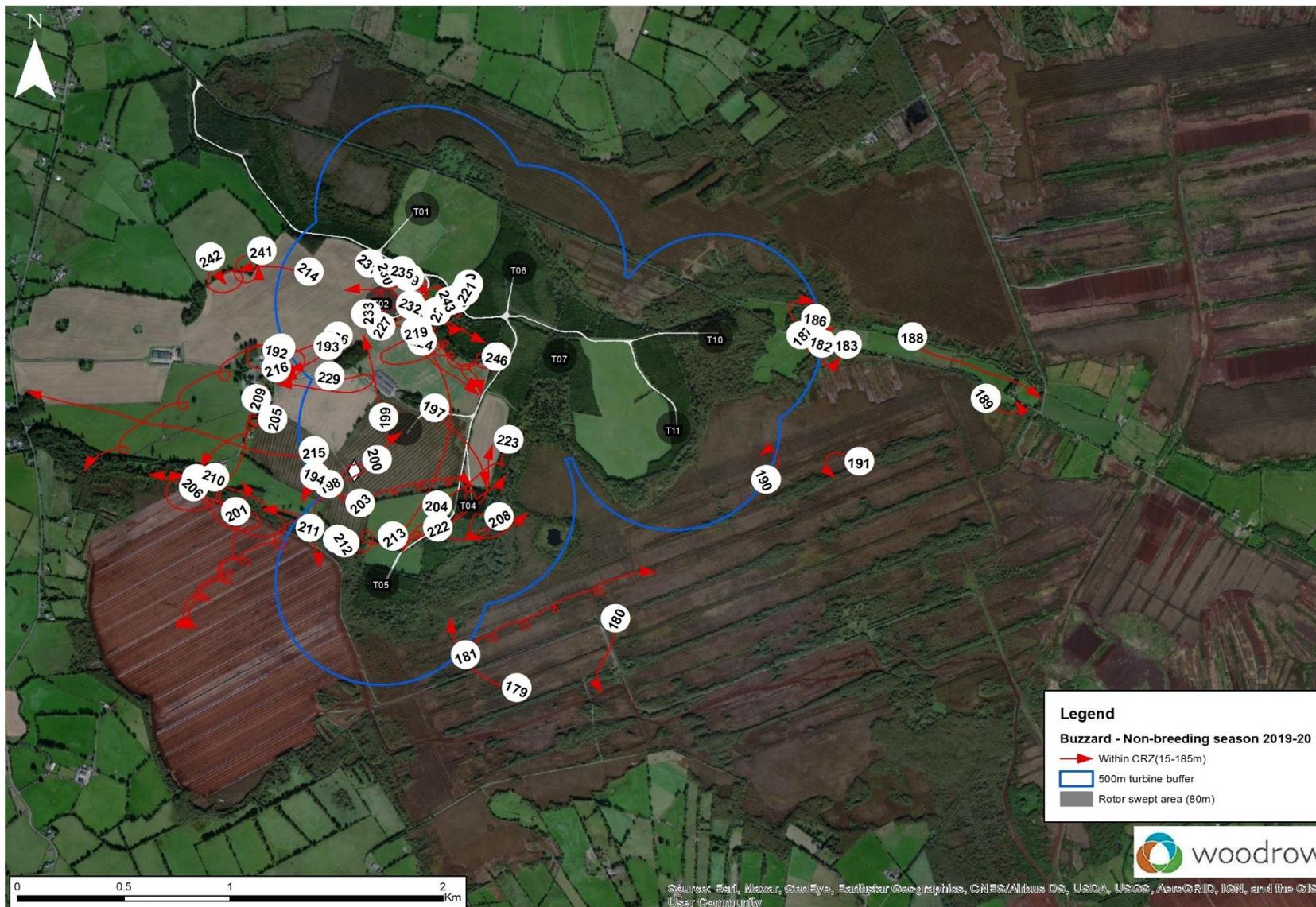


Figure A5.4.9: Kestrel flight lines – non-breeding season 2019-20

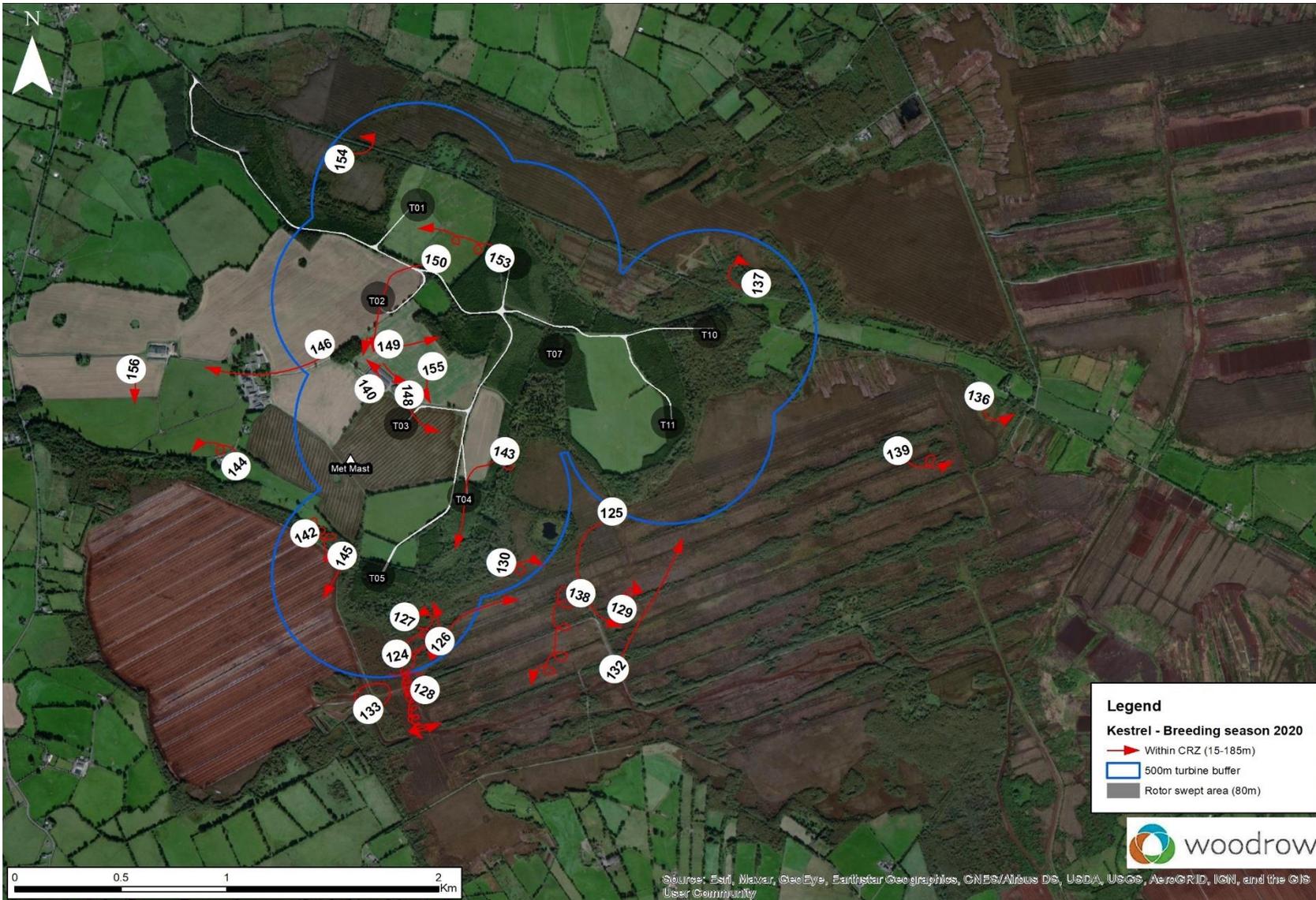


Figure A5.4.10 Kestrel flight lines –breeding season 2020

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Non-breeding 2018-19	25/10/2018	1043	K	1	20				
2	Non-breeding 2018-19	25/10/2018	1127	K	1	15				
3	Non-breeding 2018-19	25/10/2018	1156	K	1	15				
5	Non-breeding 2018-19	26/11/2018	1354	K	1	40				
6	Non-breeding 2018-19	26/11/2018	1432	K	1	2				
7	Non-breeding 2018-19	26/11/2018	1434	K	1	5				
8	Non-breeding 2018-19	26/11/2018	1528	K	1	10				
9	Non-breeding 2018-19	13/12/2018	940	K	1	15				
10	Non-breeding 2018-19	13/12/2018	1029	K	1	35				
11	Non-breeding 2018-19	13/12/2018	1117	K	1	7				
12	Non-breeding 2018-19	08/01/2019	1144	K	1	12				
13	Non-breeding 2018-19	19/02/2019	1449	K	1	30				
14	Non-breeding 2018-19	13/12/2018	1554	K	1	15				
15	Non-breeding 2018-19	13/12/2018	1559	K	1	7				
16	Non-breeding 2018-19	08/01/2019	1316	K	1	35	30-35			

17	Non-breeding 2018-19	08/01/2019	1350	K	1	40	15-40			
18	Non-breeding 2018-19	08/01/2019	1452	K	1	25	10-25			
19	Non-breeding 2018-19	25/01/2019	1320	K	1	2				
20	Non-breeding 2018-19	28/01/2019	1316	K	1	15				
21	Non-breeding 2018-19	21/02/2019	1246	K	1	30				
22	Non-breeding 2018-19	21/02/2019	1303	K	1	30				
23	Non-breeding 2018-19	21/02/2019	1317	K	1	18				
24	Non-breeding 2018-19	07/03/2019	1444	K	1	20				
25	Non-breeding 2018-19	07/03/2019	1525	K	1	18				
26	Non-breeding 2018-19	07/03/2019	1600	K	1	15				
27	Non-breeding 2018-19	14/11/2018	1451	K	1	25				
28	Non-breeding 2018-19	07/12/2018	1258	K	1	40				
29	Non-breeding 2018-19	07/12/2018	1346	K	1	50				
30	Non-breeding 2018-19	03/01/2019	1259	K	1	40				
31	Non-breeding 2018-19	03/01/2019	1323	K	1	30				
32	Non-breeding 2018-19	03/01/2019	1411	K	1	25				

	19									
33	Non-breeding 2018-19	03/01/2019	1416	K	1	40				
34	Non-breeding 2018-19	03/01/2019	1448	K	1	20				
35	Non-breeding 2018-19	28/01/2019	1411	K	1	10				
36	Non-breeding 2018-19	28/01/2019	1426	K	1	10				
37	Non-breeding 2018-19	28/01/2019	1435	K	1	10				
38	Non-breeding 2018-19	28/01/2019	1440	K	1	30				
39	Non-breeding 2018-19	28/01/2019	1455	K	1	20				
40	Non-breeding 2018-19	28/01/2019	1505	K	1	20				
41	Non-breeding 2018-19	28/01/2019	1521	K	1	25				
42	Non-breeding 2018-19	28/01/2019	1545	K	1	10				
43	Non-breeding 2018-19	28/01/2019	1557	K	1	15				
44	Non-breeding 2018-19	04/02/2019	1434	K	1	5				
45	Non-breeding 2018-19	04/02/2019	1445	K	1	10				
46	Non-breeding 2018-19	04/02/2019	1514	K	1	15				
47	Non-breeding 2018-19	04/02/2019	1612	K	1	25				

48	Non-breeding 2018-19	21/02/2019	1356	K	1	25				
49	Non-breeding 2018-19	21/02/2019	1446	K	1	40				
50	Non-breeding 2018-19	21/02/2019	1509	K	1	5				
51	Non-breeding 2018-19	21/02/2019	1517	K	1	10				
52	Non-breeding 2018-19	21/02/2019	1520	K	1	15				
53	Non-breeding 2018-19	26/02/2019	1309	K	1	45				
54	Non-breeding 2018-19	03/01/2019	1107	K	1	20	10-20			flying
55	Non-breeding 2018-19	04/02/2019	1122	K	1	10				
56	Non-breeding 2018-19	04/02/2019	1206	K	1	30				
57	Non-breeding 2018-19	04/02/2019	1312	K	1	25				
58	Breeding 2019	19/03/2019	1421	K	1	120				
59	Breeding 2019	19/03/2019	1516	K	2	100				
60	Breeding 2019	23/04/2019	1527	K	1	15	0-20			
61	Breeding 2019	26/08/2019	1540	K	2	175				
62	Breeding 2019	23/04/2019	748	K	1	20				
63	Breeding 2019	27/06/2019	1710	K	1	150				
64	Breeding 2019	27/06/2019	1758	K	1	150				
65	Breeding 2019	27/06/2019	1850	K	1	125				
66	Breeding 2019	25/07/2019	840	K	1	150				

67	Breeding 2019	16/08/2019	1350	K	1	50				
68	Breeding 2019	16/08/2019	1400	K	1	75				
69	Breeding 2019	16/08/2019	1433	K	1	50				
70	Breeding 2019	16/08/2019	1445	K	1	100				
71	Breeding 2019	16/08/2019	1450	K	1	100				
72	Breeding 2019	16/08/2019	1500	K	1	50				
73	Breeding 2019	16/04/2019	1556	K	1	30				
74	Breeding 2019	16/04/2019	1613	K	1	30				
75	Breeding 2019	24/05/2019	1548	K	1	30	25-40			
76	Breeding 2019	27/06/2019	1335	K	1	150				
77	Breeding 2019	27/06/2019	1420	K	1	175				
78	Breeding 2019	16/08/2019	1130	K	1	175				
79	Breeding 2019	29/08/2019	1430	K	2	100				
80	Breeding 2019	29/08/2019	1440	K	1	50				
81	Breeding 2019	16/05/2019	1446	K	1	100				
82	Breeding 2019	16/05/2019	1737	K	1	50				
83	Breeding 2019	24/05/2019	1222	K	1	40	20-40			
84	Breeding 2019	10/06/2019	1522	K	1	80				
85	Breeding 2019	10/06/2019	1527	K	1	100				
86	Breeding 2019	10/06/2019	1530	K	1	40				
87	Breeding 2019	10/06/2019	1537	K	1	50				
88	Breeding 2019	10/06/2019	1541	K	1	80				
89	Breeding 2019	10/06/2019	1548	K	1	80				
90	Breeding 2019	10/06/2019	1553	K	1	80				
91	Non-breeding 2019-20	01/10/2019	935	K	1	100	100-150			

92	Non-breeding 2019-20	01/10/2019	1115	K	1	50	50-100	M		
93	Non-breeding 2019-20	01/10/2019	1120	K	1	100	100-150	M		
94	Non-breeding 2019-20	29/10/2019	1035	K	1	100	100-150	M		
95	Non-breeding 2019-20	29/10/2019	1105	K	1	100	75-100	M		
96	Non-breeding 2019-20	29/10/2019	1125	K	1	120	75-150			
97	Non-breeding 2019-20	25/02/2020	1155	K	1	50	20-50			hunting
98	Non-breeding 2019-20	15/11/2019	1300	K	1	50	20-50	F	Juv.	
99	Non-breeding 2019-20	15/11/2019	1300	K	1	50	20-50			
100	Non-breeding 2019-20	15/11/2019	1350	K	1	50	20-50	F	Juv.	
101	Non-breeding 2019-20	15/11/2019	1428	K	1	50	20-50	F	Juv.	
102	Non-breeding 2019-20	15/11/2019	1500	K	1	25	25			
103	Non-breeding 2019-20	13/12/2019	1140	K	1	40	25-50	M		travelling
104	Non-breeding 2019-20	02/10/2019	1220	K	1	25	20-25			
105	Non-breeding 2019-20	02/10/2019	1230	K	1	20	20			
106	Non-breeding 2019-20	02/10/2019	1240	K	1	20	10-20			
107	Non-breeding 2019-	02/10/2019	1300	K	1	20	20			

	20									
108	Non-breeding 2019-20	02/10/2019	1340	K	1	20	0-20			
109	Non-breeding 2019-20	02/10/2019	1345	K	2	75	20-75			
110	Non-breeding 2019-20	02/10/2019	1400	K	2					
111	Non-breeding 2019-20	02/10/2019	1405	K	2	20	20			
112	Non-breeding 2019-20	02/10/2019	1420	K	1	70	20-100			
113	Non-breeding 2019-20	16/10/2019	1150	K	1	100	50-100			
114	Non-breeding 2019-20	15/11/2019	1140	K	2	60	25-75			
115	Non-breeding 2019-20	26/02/2020	1341	K	1	100	0-100	M	AD	hunting
116	Non-breeding 2019-20	26/02/2020	1347	K	1	100	0-100	M	AD	hunting
117	Non-breeding 2019-20	26/02/2020	1349	K	1	50	25-50	M	AD	travelling
118	Non-breeding 2019-20	26/02/2020	1352	K	1	50	25-50	M	AD	hunting
119	Non-breeding 2019-20	26/02/2020	1402	K	1	50	25-50	M	AD	hunting
120	Non-breeding 2019-20	29/10/2019	1225	K	1	0				
121	Non-breeding 2019-20	29/10/2019	1355	K	1	100	100			
122	Non-breeding 2019-20	24/01/2020	1305	K	1	15	5-15	M	AD	hunting

123	Non-breeding 2019-20	13/02/2020	1311	K	1	30	20-30	M		travelling
124	Breeding 2020	20/03/2020	1548	K	1	30	20-60	F	AD	Hunting
125	Breeding 2020	20/03/2020	1622	K	1	30	20-60	F	AD	Hunting
126	Breeding 2020	05/05/2020	827	K	1	50	10-50			hunting
127	Breeding 2020	05/05/2020	1003	K	1	60	20-60			hunting
128	Breeding 2020	05/05/2020	1040	K	1	70	50-70	M	AD	hunting
129	Breeding 2020	21/05/2020	1100	K	1	150	150-175	M	AD	circling
130	Breeding 2020	09/06/2020	1836	K	1	50	50-100			hunting
131	Breeding 2020	22/06/2020	1209	K	1	50	50-75			hunting
132	Breeding 2020	17/08/2020	1027	K	1	30	20-30			travelling
133	Breeding 2020	24/08/2020	1632	K	1	50	50-75			hunting
134	Breeding 2020	24/08/2020	1655	K	1	50	50-75			hunting
135	Breeding 2020	24/08/2020	1715	K	1	50	25-50			hunting
136	Breeding 2020	06/05/2020	1004	K	1	30	20-30			hunting
137	Breeding 2020	20/07/2020	1037	K	1	75	75-100			hunting
138	Breeding 2020	29/07/2020	1034	K	1	50	50-100			hunting
139	Breeding 2020	07/08/2020	1658	K	1	75	75-100			hunting
140	Breeding 2020	06/05/2020	1159	K	1	50	30-50			hunting
141	Breeding 2020	06/05/2020	1208	K	1	50	30-50			hunting
142	Breeding 2020	10/06/2020	1357	K	1	50	50-150			mobing BZ
143	Breeding 2020	10/06/2020	1418	K	1	50	50-75			hunting
144	Breeding 2020	10/06/2020	1442	K	1	50	50-75	M	AD	hunting
145	Breeding 2020	10/06/2020	1520	K	1	75	75-100			hunting
146	Breeding 2020	24/06/2020	1513	K	1	100	100			travelling
147	Breeding 2020	29/07/2020	1118	K	1	0				

148	Breeding 2020	21/08/2020	1122	K	1	50	50-100			hunting
149	Breeding 2020	27/04/2020	1240	K	1	50	50-75			travelling
150	Breeding 2020	21/05/2020	1246	K	1	50	50-100			hunting
151	Breeding 2020	21/05/2020	1343	K	1					heard
152	Breeding 2020	21/05/2020	1344	K	1	30	25-30			travelling
153	Breeding 2020	09/06/2020	1507	K	1	50	50-100			hunting
154	Breeding 2020	28/07/2020	1017	K	1	100	100-150			hunting
155	Breeding 2020	10/08/2020	1321	K	1	50	35-50			hunting
156	Breeding 2020	17/08/2020	1435	K	1	30	20-30			flying

Table A5.4 6: Kestrel flights

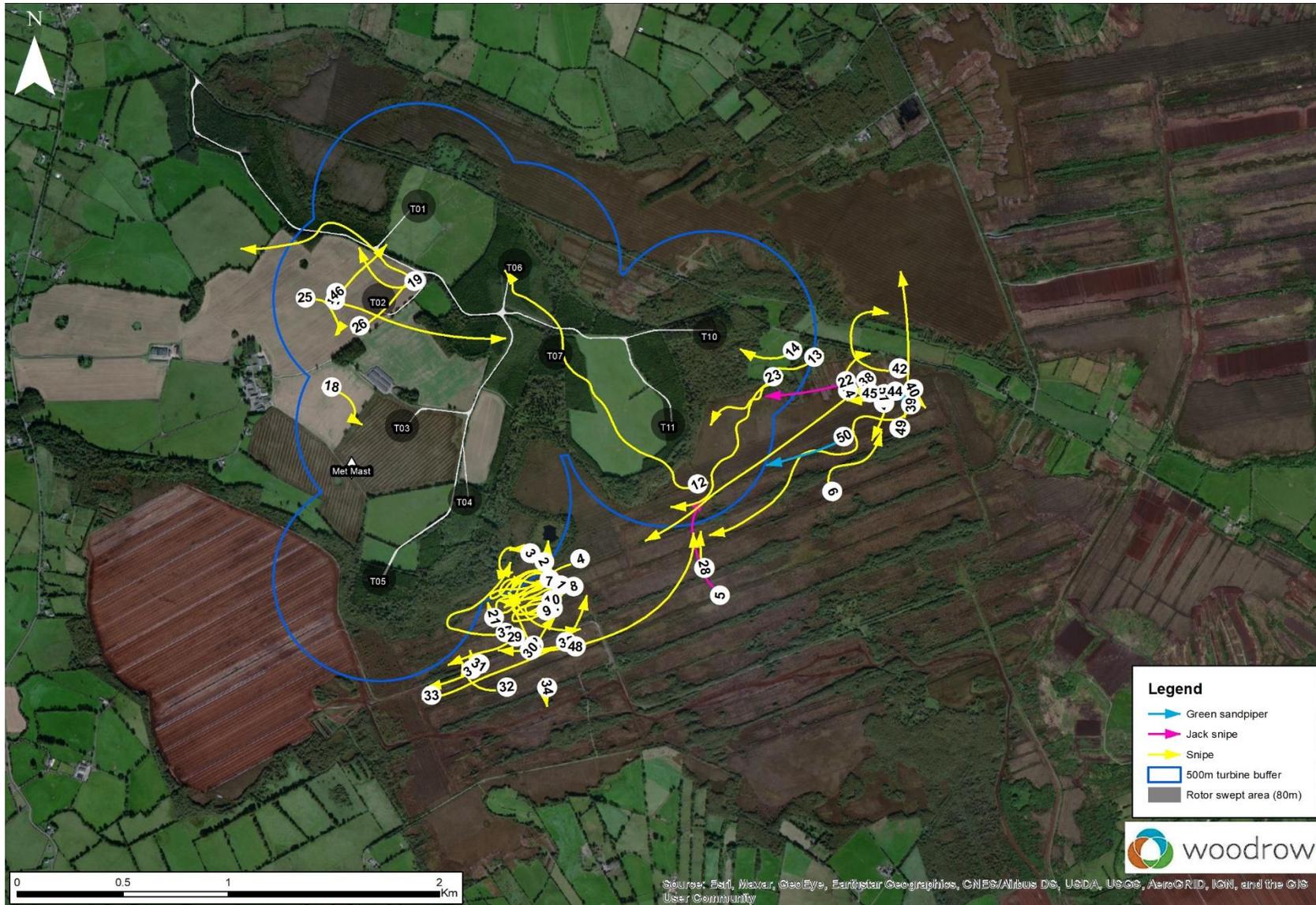


Figure A5.4.11: All snipe, jack snipe & green sandpiper flight lines (Oct-2018 to Aug-2020)

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Non-breeding 2018-19	01/12/2018	958	SN	2	20				
2	Non-breeding 2018-19	01/12/2018	959	SN	1	10				
3	Non-breeding 2018-19	01/12/2018	1000	SN	1	15				
4	Non-breeding 2018-19	25/01/2019	1125	SN	2	7				
5	Non-breeding 2018-19	25/01/2019	1125	JS	1	7				
6	Non-breeding 2018-19	25/01/2019	1130	SN	3	7				
7	Non-breeding 2018-19	19/02/2019	1148	SN	9	30				
8	Non-breeding 2018-19	19/02/2019	1149	SN	6	30				
9	Non-breeding 2018-19	19/02/2019	1151	SN	5	20				
10	Non-breeding 2018-19	19/02/2019	1151	SN	2	15				
11	Non-breeding 2018-19	19/02/2019	1153	SN	1	15				
12	Non-breeding 2018-19	25/10/2018	1701	SN	1	40				
13	Non-breeding 2018-19	01/12/2018	1345	SN	1	40				
14	Non-breeding 2018-19	01/12/2018	1345	SN	1	5				
18	Non-breeding 2018-19	25/10/2018	1648	SN	1	5				

19	Non-breeding 2018-19	04/02/2019	1144	SN	1	10				
20	Breeding 2019	25/03/2019	1105	SN	1	30				
21	Breeding 2019	25/03/2019	1202	SN	5	2				
22	Breeding 2019	19/03/2019	1230	JS	1	2				
23	Breeding 2019	19/03/2019	1530	SN	6	50				
24	Breeding 2019	25/03/2019	1309	SN	2	1				
25	Breeding 2019	25/03/2019	1512	SN	1	5				
26	Breeding 2019	25/03/2019	1537	SN	1	50				
27	Non-breeding 2019-20	01/10/2019	1210	SN	1	65	10-100			
28	Non-breeding 2019-20	01/10/2019	1212	SN	1	100	100			
29	Non-breeding 2019-20	14/10/2019	1900	SN	3	30	30			
30	Non-breeding 2019-20	14/11/2019	1115	SN	1	20	0-20			
31	Non-breeding 2019-20	14/11/2019	1120	SN	1	10	0-10			
32	Non-breeding 2019-20	27/11/2019	920	SN	2	20	5-20			
33	Non-breeding 2019-20	27/11/2019	1110	SN	35	75	75			
34	Non-breeding 2019-20	11/12/2019	935	SN	1	5	5			travelling
35	Non-breeding 2019-20	20/12/2019	830	SN	3	5	0-5			
36	Non-breeding 2019-20	09/01/2020	855	SN	1	5	5			flying

37	Non-breeding 2019-20	13/02/2020	946	SN	2	100	0-175			travelling
38	Non-breeding 2019-20	02/10/2019	910	SN	7	100	100			
39	Non-breeding 2019-20	02/10/2019	950	SN	2	100	100			
40	Non-breeding 2019-20	28/11/2019	1125	SN	1	10	5-10			
41	Non-breeding 2019-20	13/12/2019	1050	SN	1	5	0-5			flushed
42	Non-breeding 2019-20	23/12/2019	900	SN	2	25	0-50			flushed
43	Non-breeding 2019-20	10/01/2020	900	SN	1	5	0-5			travelling
44	Non-breeding 2019-20	26/02/2020	930	SN	1	5	0-5			travelling
45	Non-breeding 2019-20	10/03/2020	1007	SN	1	5	0-5			flying
46	Non-breeding 2019-20	20/12/2019	1345	SN	1	20	0-20			flushed
47	Non-breeding 2019-20	09/01/2020	1440	SN	1	75	0-75			travelling
48	Breeding 2020	22/06/2020	1400	SN	1					chipping
49	Breeding 2020	28/04/2020	903	SN	1	75	50-75			drumming
50	Breeding 2020	29/07/2020	937	GE	1	25	0-25			travelling
51	Breeding 2020	07/08/2020	1600	GE	1	10	0-10			flying

Table A5.4 7: Snipe, jack snipe & green sandpiper flights

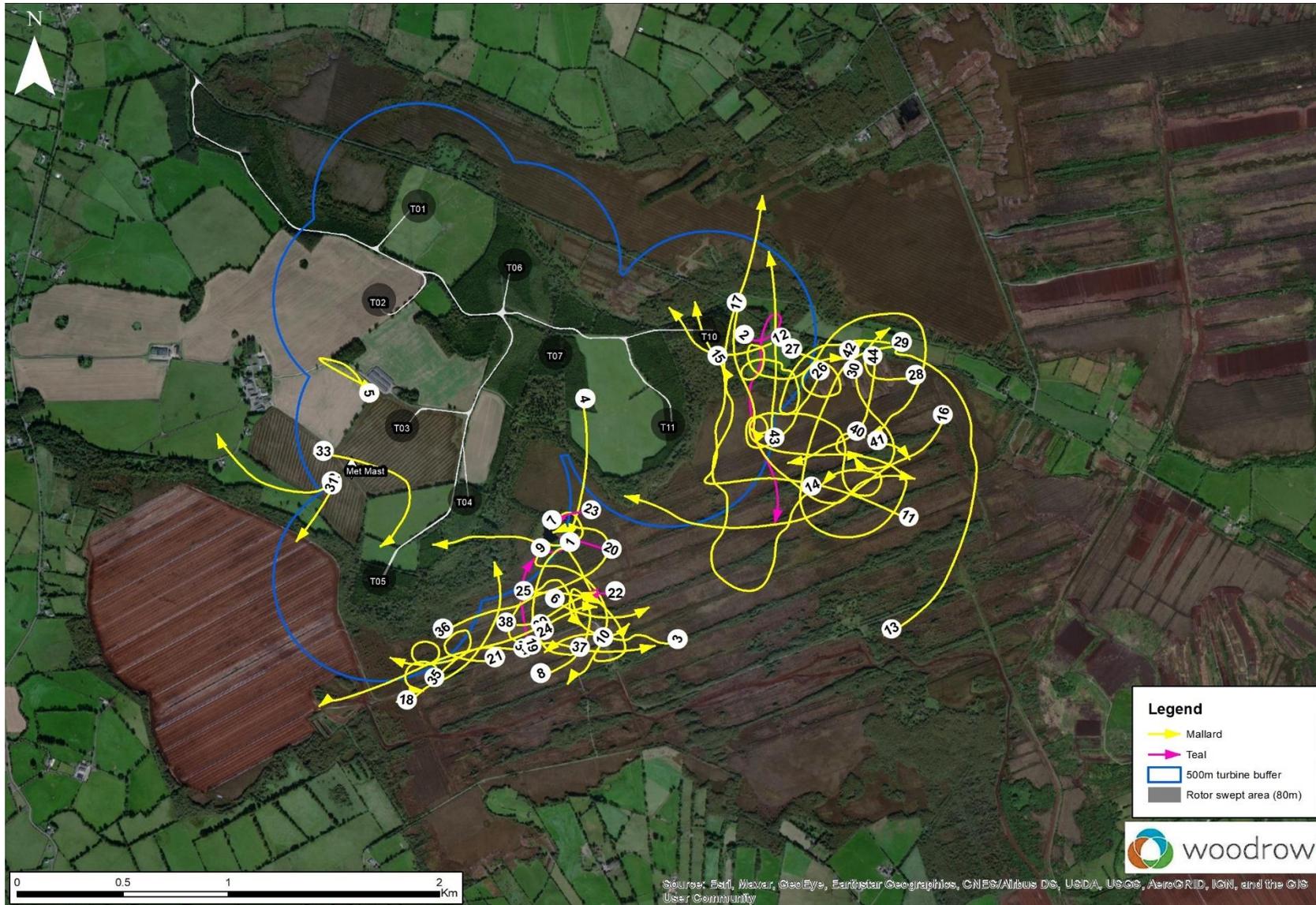


Figure A5.4.12: All mallard & teal flight lines (Oct-2018 to Aug-2020)

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Non-breeding 2018-19	01/12/2018	1200	T	2	25				
2	Non-breeding 2018-19	01/12/2018	1448	T	2	30				
3	Non-breeding 2018-19	07/03/2019	1653	MA	1	30				
4	Non-breeding 2018-19	07/12/2018	1221	MA	2	30				
5	Non-breeding 2018-19	21/02/2019	1429	MA	2	25				
6	Breeding 2019	25/03/2019	1003	MA	1	10				
7	Breeding 2019	25/03/2019	1114	MA	1	30				
8	Breeding 2019	25/03/2019	1204	MA	2	2				
9	Breeding 2019	08/05/2019	1006	MA	1	20				
10	Breeding 2019	08/05/2019	1049	MA	2	10				
11	Breeding 2019	25/03/2019	1401	MA	1	15				
12	Breeding 2019	25/03/2019	1418	MA	3	30				
13	Breeding 2019	23/04/2019	803	MA	3	30				
14	Breeding 2019	23/04/2019	805	MA	3	40				
15	Breeding 2019	23/04/2019	807	MA	4	30				
16	Breeding 2019	23/04/2019	817	MA	1	15				
17	Breeding 2019	08/05/2019	1503	MA	1	15				
18	Non-breeding 2019-20	01/10/2019	950	MA	1	150	150-170			
19	Non-breeding 2019-20	09/01/2020	1115	T	4	25	10-25			travelling
20	Non-breeding 2019-	24/01/2020	1025	T	15	25	20-25			travelling

	20									
21	Non-breeding 2019-20	13/02/2020	925	MA	2	100	0-100	M+F		circling
22	Non-breeding 2019-20	13/02/2020	1128	T	2	50	0-50			travelling
23	Non-breeding 2019-20	09/03/2020	1027	T	1	50	50-75			travelling
24	Non-breeding 2019-20	09/03/2020	1038	MA	1	50	0-50			travelling
25	Non-breeding 2019-20	09/03/2020	1121	MA	1	25	5-25	M		travelling
26	Non-breeding 2019-20	26/02/2020	1032	MA	2	75	0-75	M+F		travelling
27	Non-breeding 2019-20	10/03/2020	1024	MA	2	50	0-50	M+F		travelling
28	Non-breeding 2019-20	10/03/2020	1031	MA	3	75	50-75	2M+F		travelling
29	Non-breeding 2019-20	10/03/2020	1039	MA	1	75	0-75	M		circling
30	Non-breeding 2019-20	10/03/2020	1126	MA	2	50	0-50	M+F		travelling
31	Non-breeding 2019-20	16/10/2019	1140	MA	2	50	50			
32	Non-breeding 2019-20	10/03/2020	1411	MA	2	50	0-50	M+F		travelling
33	Non-breeding 2019-20	10/03/2020	1449	MA	2	50	50-75	M+F		travelling
34	Breeding 2020	27/04/2020	847	MA	2	15	0-15	M+F		travelling
35	Breeding 2020	27/04/2020	903	MA	1	10	0-10	M		travelling
36	Breeding 2020	27/04/2020	933	MA	3	50	0-50	2M+F		travelling

37	Breeding 2020	05/05/2020	817	MA	2	45	5-45	M+F		travelling
38	Breeding 2020	05/05/2020	910	MA	3	30	20-30	2M+F		travelling
39	Breeding 2020	05/05/2020	928	MA	2	60	20-60	M+F		travelling
40	Breeding 2020	22/04/2020	835	MA	5	25	20-25			circling
41	Breeding 2020	22/04/2020	923	MA	4	50	20-50			travelling
42	Breeding 2020	22/04/2020	940	MA	2	25	20-50	M		travelling
43	Breeding 2020	28/04/2020	847	MA	4	90	90-100	3M+F		travelling
44	Breeding 2020	28/04/2020	924	MA	1	50	30-50	M		travelling

Table A5.4.8: Mallard & teal flights

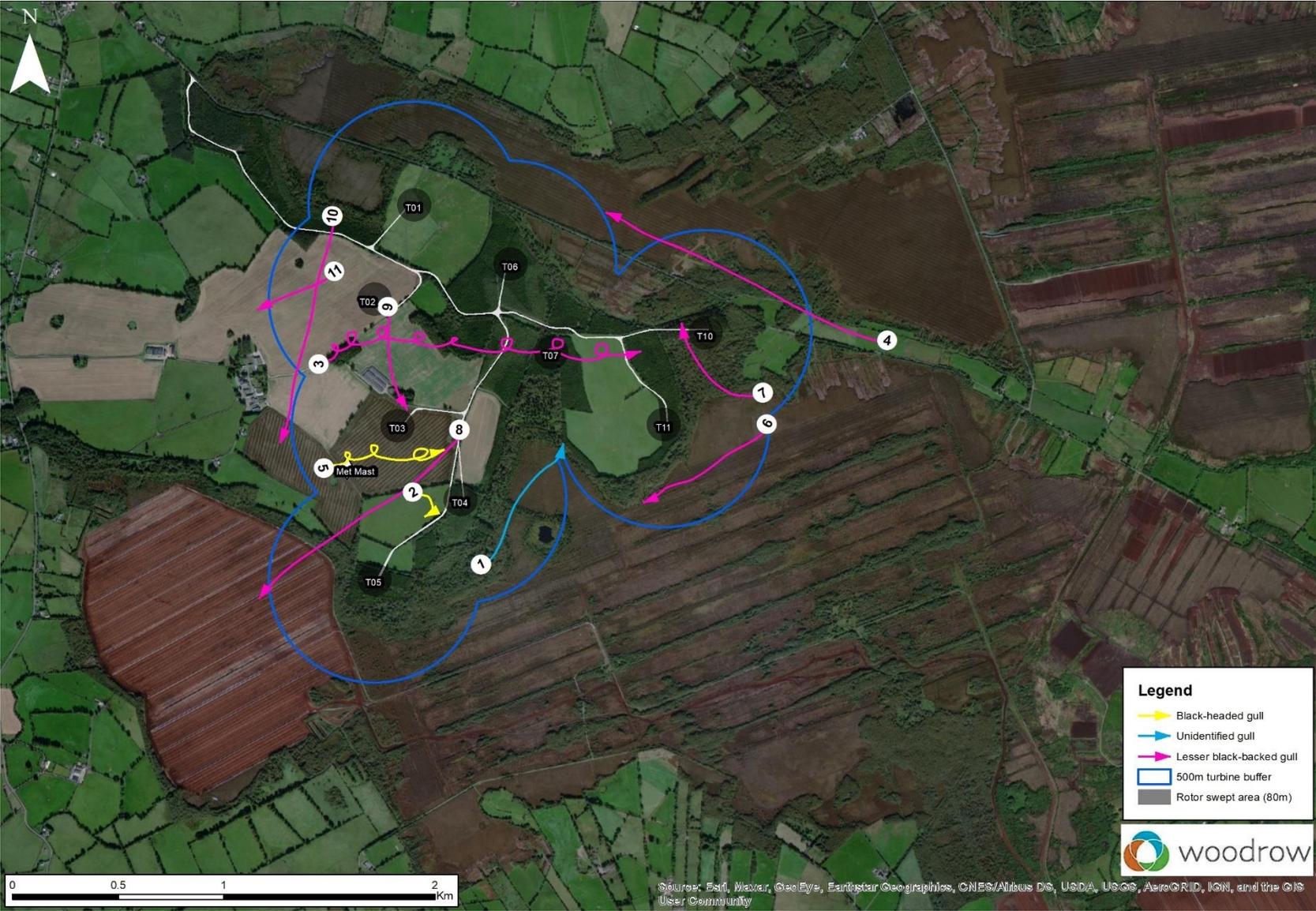


Figure A5.4.13: All gull flight lines (Oct-2018 to Aug-2020)

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Breeding 2019	24/05/2019	1619	Gulls	3	60	50-70			
2	Breeding 2019	10/07/2019	1145	BH	1	10	0-10			
3	Breeding 2019	10/07/2019	1300	LB	2	175	>175			
4	Non-breeding 2019-20	10/01/2020	1027	LB	1	75	75		Juv.	travelling
5	Non-breeding 2019-20	13/12/2019	1405	BH	1	15	0-20		AD	circling
6	Breeding 2020	21/08/2020	1309	LB	15	50	50-100			travelling
7	Breeding 2020	21/08/2020	1314	LB	7	50	50-100			travelling
8	Breeding 2020	10/06/2020	1550	LB	2	175	175-200			travelling
9	Breeding 2020	05/05/2020	1328	LB	1	75	50-75		AD	travelling
10	Breeding 2020	22/06/2020	925	LB	1	100	25-100		AD	travelling
11	Breeding 2020	17/07/2020	1158	LB	1	50	50-75			travelling

Table A5.4.9: Gull flights

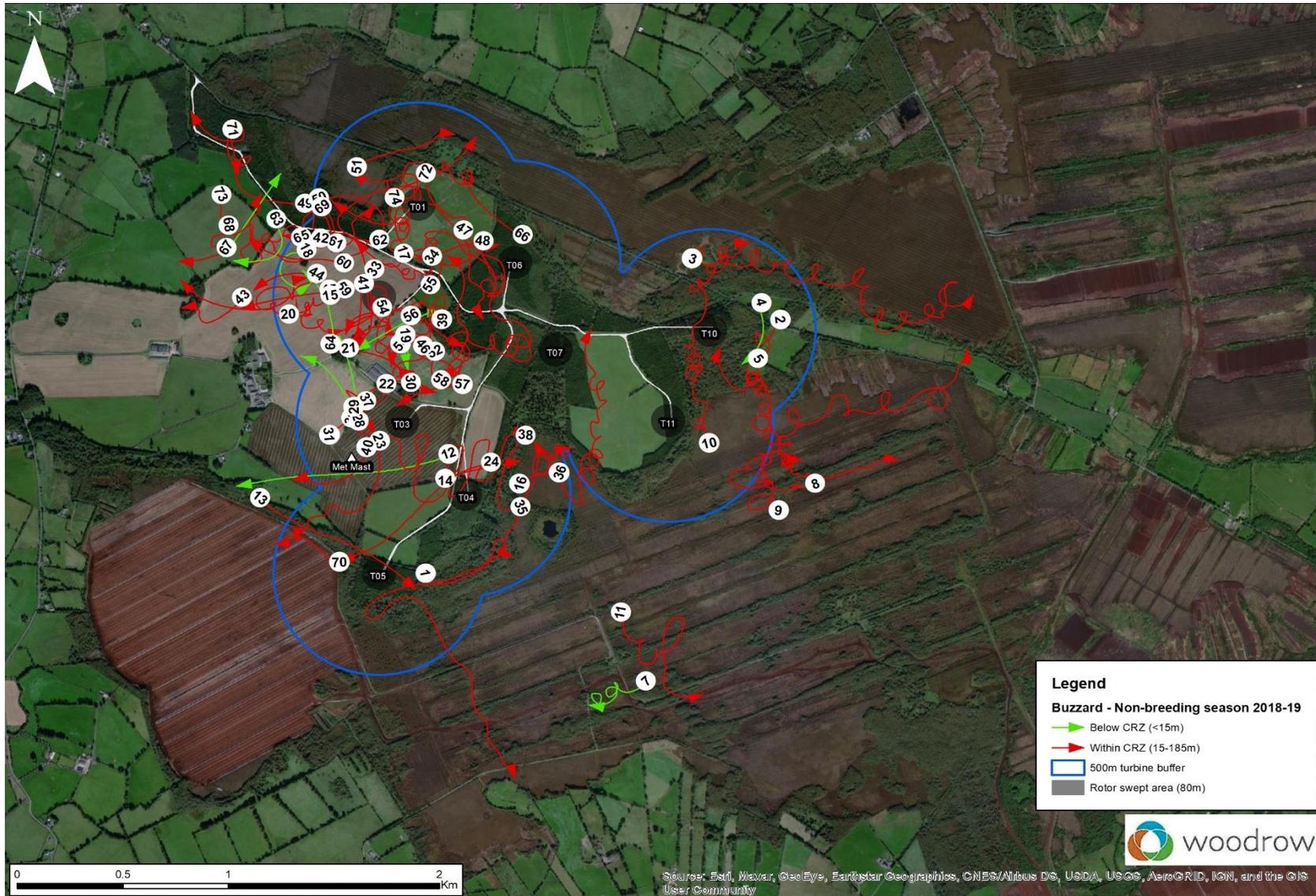


Figure A5.4.14: Buzzard flight lines – non-breeding season 2018-19

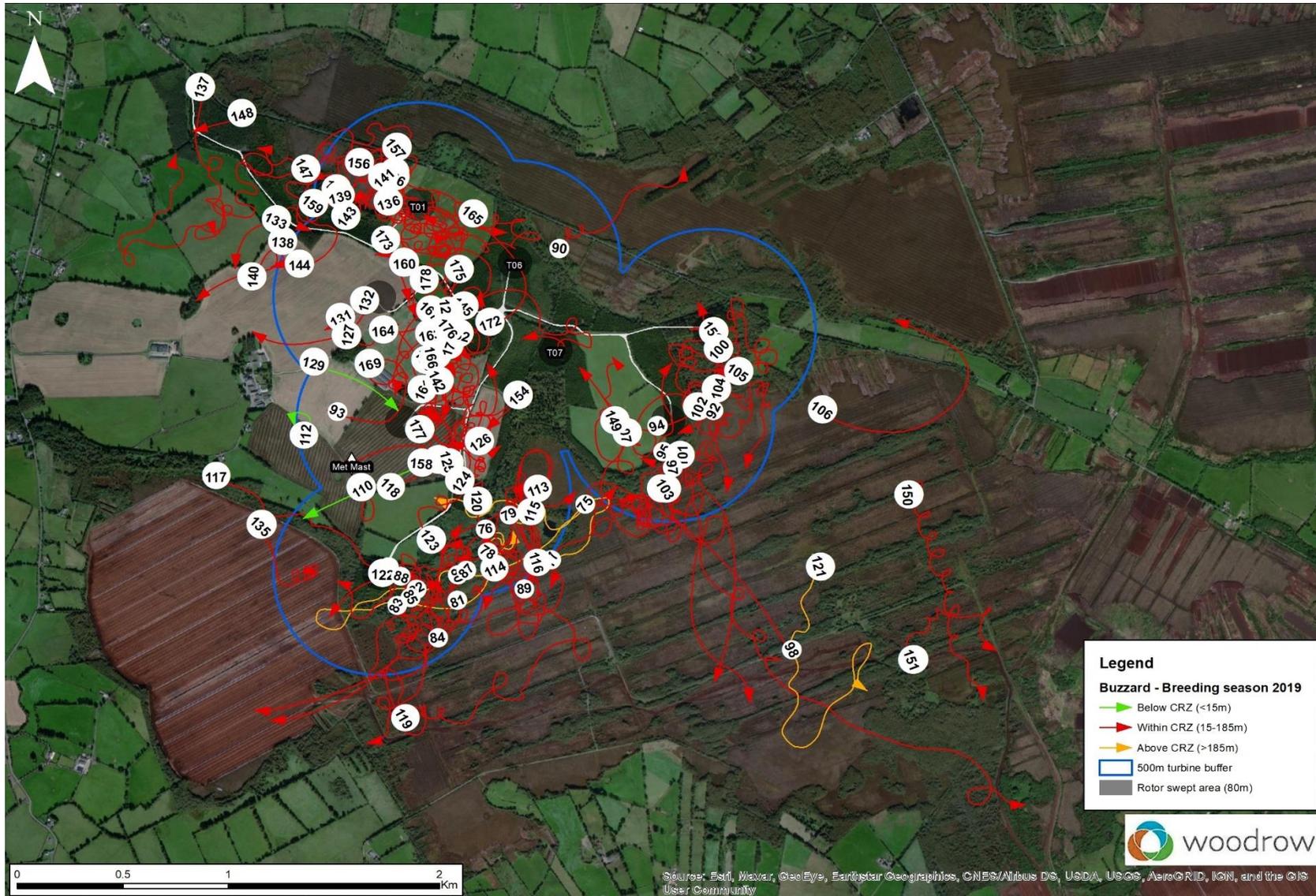


Figure A5.4.15: Buzzard flight lines – breeding season 2019

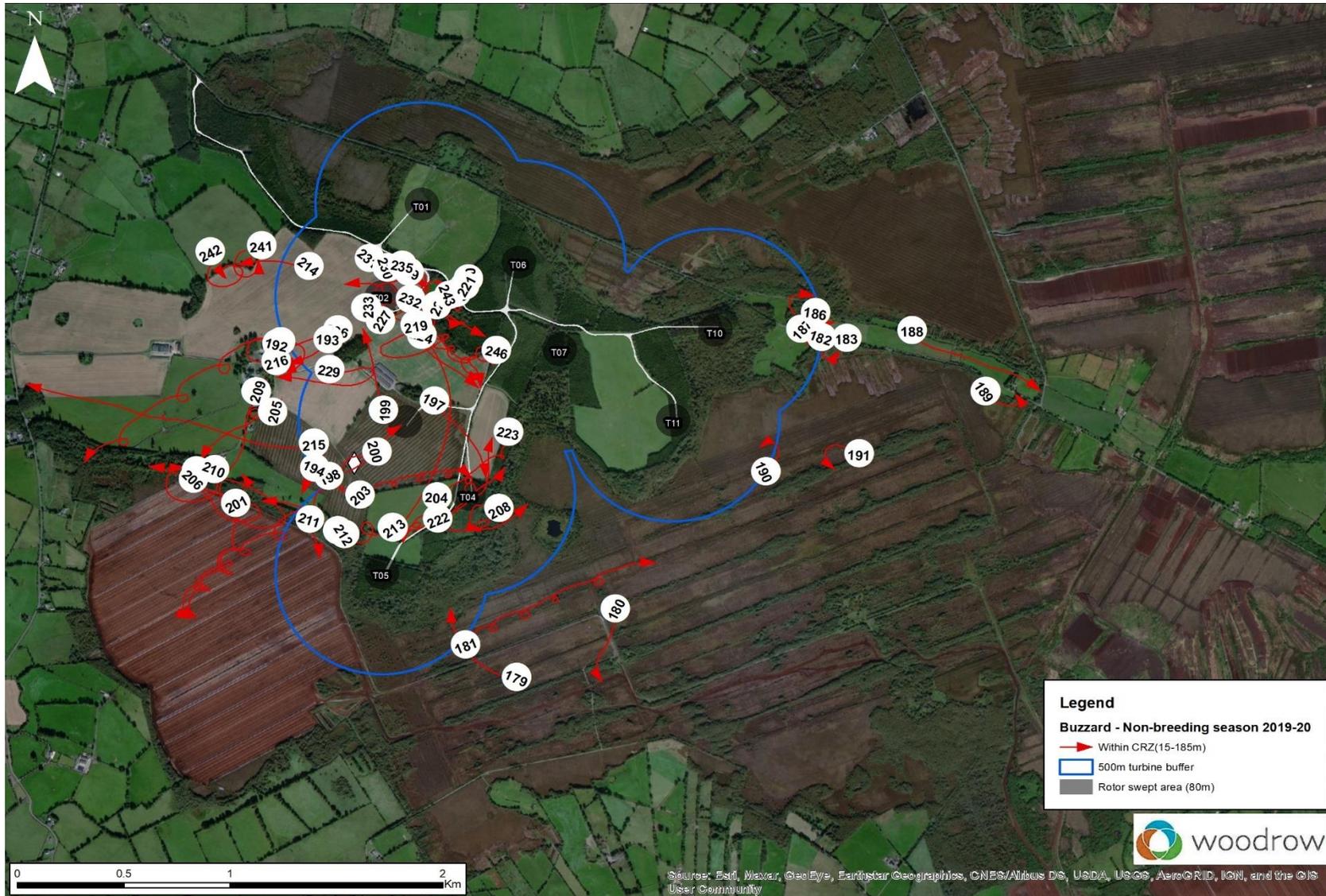


Figure A5.4.16: Buzzard flight lines – non-breeding season 2019-20

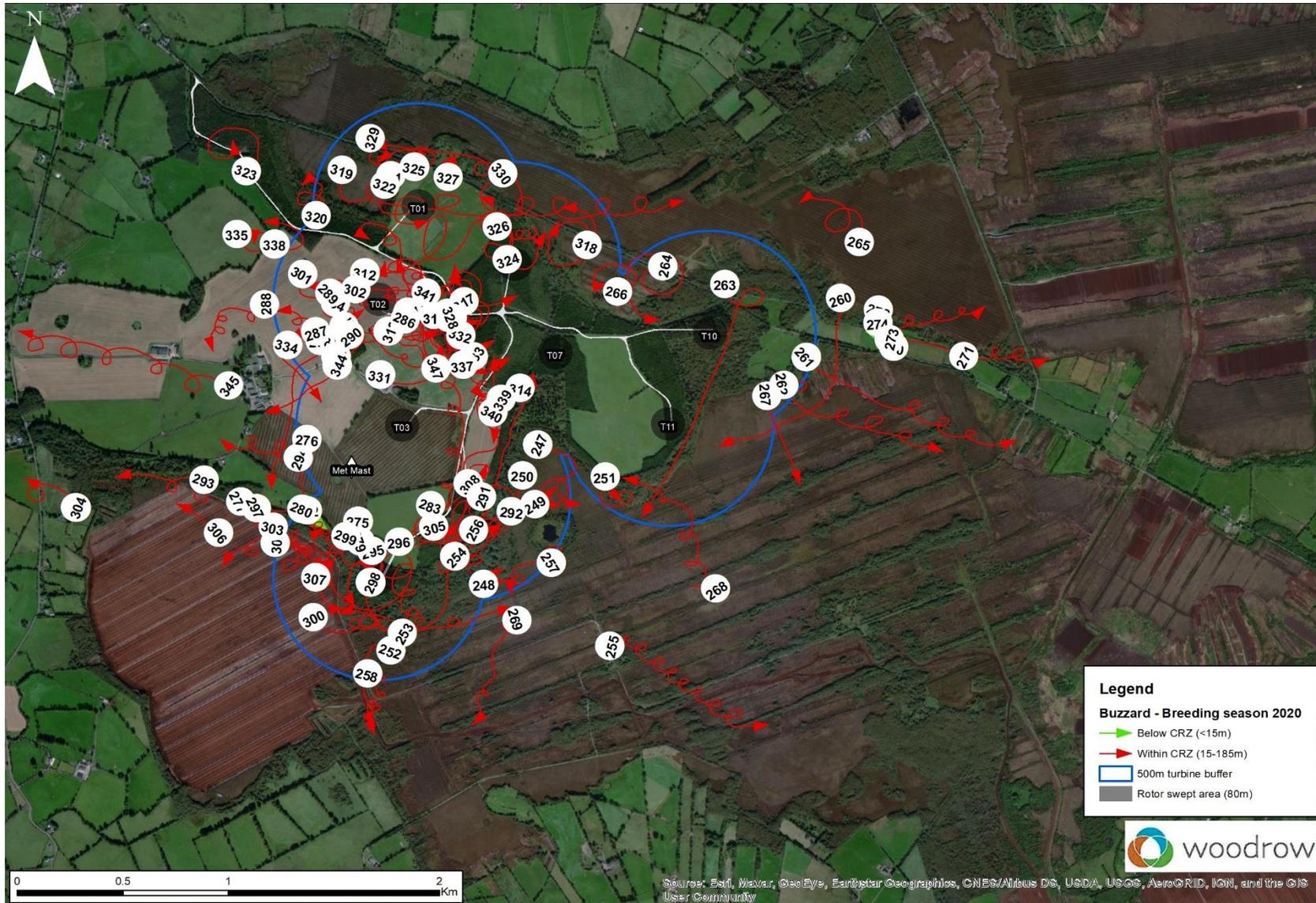


Figure A5.4.17: Buzzard flight lines – breeding season 2020

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Non-breeding 2018-19	19/02/2019	1132	BZ	1	20				
2	Non-breeding 2018-19	25/10/2018	1604	BZ	1	15				
3	Non-breeding 2018-19	27/11/2018	1211	BZ	1	20				
4	Non-breeding 2018-19	05/12/2018	1531	BZ	1	10				
5	Non-breeding 2018-19	28/01/2019	1203	BZ	1	20				
7	Non-breeding 2018-19	21/02/2019	1202	BZ	1	6				
8	Non-breeding 2018-19	21/02/2019	1219	BZ	1	50				
9	Non-breeding 2018-19	21/02/2019	1221	BZ	1	50				
10	Non-breeding 2018-19	21/02/2019	1251	BZ	2	50				
11	Non-breeding 2018-19	21/02/2019	1303	BZ	1	80				
12	Non-breeding 2018-19	26/11/2018	1024	BZ	1	10				
13	Non-breeding 2018-19	26/11/2018	1028	BZ	1	20				
14	Non-breeding 2018-19	26/11/2018	1103	BZ	1	15				
15	Non-breeding 2018-19	07/12/2018	1318	BZ	1	40				
16	Non-breeding 2018-19	07/12/2018	1346	BZ	1	50				

17	Non-breeding 2018-19	07/12/2018	1359	BZ	1	15				
18	Non-breeding 2018-19	07/12/2018	1442	BZ	1	5				
19	Non-breeding 2018-19	07/12/2018	1451	BZ	1	10				
20	Non-breeding 2018-19	07/12/2018	1457	BZ	3	15				
21	Non-breeding 2018-19	17/12/2018	1111	BZ	1	20				
22	Non-breeding 2018-19	21/12/2018	940	BZ	1	25				
23	Non-breeding 2018-19	21/12/2018	941	BZ	1	20				
24	Non-breeding 2018-19	21/12/2018	943	BZ	1	25				
25	Non-breeding 2018-19	21/12/2018	1002	BZ	1					
26	Non-breeding 2018-19	21/12/2018	1011	BZ	1					
27	Non-breeding 2018-19	21/12/2018	1031	BZ	1					
28	Non-breeding 2018-19	17/01/2019	1419	BZ	1	10				
29	Non-breeding 2018-19	17/01/2019	1433	BZ	1	10				
30	Non-breeding 2018-19	17/01/2019	1557	BZ	1	10				
31	Non-breeding 2018-19	23/01/2019	1335	BZ	1	15	10-15			
32	Non-breeding 2018-19	28/01/2019	1406	BZ	1	15				

	19									
33	Non-breeding 2018-19	04/02/2019	1403	BZ	1	50				
34	Non-breeding 2018-19	04/02/2019	1403	BZ	1	45				
35	Non-breeding 2018-19	21/02/2019	1408	BZ	1	20				
36	Non-breeding 2018-19	21/02/2019	1413	BZ	1	80				
37	Non-breeding 2018-19	21/02/2019	1501	BZ	2	100				
38	Non-breeding 2018-19	21/02/2019	1532	BZ	4	50				
39	Non-breeding 2018-19	26/02/2019	1204	BZ	1	40				
40	Non-breeding 2018-19	08/03/2019	1149	BZ	1	30				
41	Non-breeding 2018-19	25/10/2018	1421	BZ	1	20				
42	Non-breeding 2018-19	25/10/2018	1424	BZ	1	25				
43	Non-breeding 2018-19	25/10/2018	1446	BZ	1	60				
44	Non-breeding 2018-19	25/10/2018	1446	BZ	1	40				
45	Non-breeding 2018-19	25/10/2018	1518	BZ	1	20				
46	Non-breeding 2018-19	14/11/2018	1148	BZ	1	40				
47	Non-breeding 2018-19	14/11/2018	1242	BZ	1	30				

48	Non-breeding 2018-19	27/11/2018	1454	BZ	1	20				
49	Non-breeding 2018-19	07/12/2018	831	BZ	2	80				
50	Non-breeding 2018-19	07/12/2018	831	BZ	2	40				
51	Non-breeding 2018-19	07/12/2018	1128	BZ	1	30				
52	Non-breeding 2018-19	17/12/2018	1308	BZ	1	20				
53	Non-breeding 2018-19	17/12/2018	1322	BZ	1	25				
54	Non-breeding 2018-19	17/12/2018	1447	BZ	1	25				
55	Non-breeding 2018-19	17/12/2018	1448	BZ	1	30				
56	Non-breeding 2018-19	17/12/2018	1541	BZ	1	10				
57	Non-breeding 2018-19	17/12/2018	1558	BZ	1	15				
58	Non-breeding 2018-19	17/12/2018	1559	BZ	1	25				
59	Non-breeding 2018-19	21/12/2018	902	BZ	2	20				
60	Non-breeding 2018-19	21/12/2018	906	BZ	3	20				
61	Non-breeding 2018-19	03/01/2019	921	BZ	2	20	10-20			flying
62	Non-breeding 2018-19	03/01/2019	922	BZ	1	30	20-40			flying
63	Non-breeding 2018-19	03/01/2019	1123	BZ	1	10	10-5			flying

	19									
64	Non-breeding 2018-19	23/01/2019	1023	BZ	1	10	0-15			
65	Non-breeding 2018-19	23/01/2019	1025	BZ	1	20	20			
66	Non-breeding 2018-19	04/02/2019	1240	BZ	2	60				
67	Non-breeding 2018-19	04/02/2019	1306	BZ	1	12				
68	Non-breeding 2018-19	21/02/2019	1626	BZ	1	40				
69	Non-breeding 2018-19	26/02/2019	1458	BZ	1	25				
70	Non-breeding 2018-19	07/03/2019	1048	BZ	1	15				
71	Non-breeding 2018-19	07/03/2019	1132	BZ	2	25				
72	Non-breeding 2018-19	07/03/2019	1247	BZ	1	30				
73	Non-breeding 2018-19	07/03/2019	1303	BZ	1	30				
74	Non-breeding 2018-19	07/03/2019	1312	BZ	1	50				
75	Breeding 2019	19/03/2019	1333	BZ	1	200				
76	Breeding 2019	19/03/2019	1335	BZ	1	150				
77	Breeding 2019	19/03/2019	1502	BZ	1	250				
78	Breeding 2019	25/03/2019	1132	BZ	1	100				
79	Breeding 2019	22/04/2019	1503	BZ	1	30				
80	Breeding 2019	21/05/2019	1329	BZ	1	100				

81	Breeding 2019	21/05/2019	1329	BZ	1	100				
82	Breeding 2019	21/05/2019	1403	BZ	1	60				
83	Breeding 2019	21/05/2019	1403	BZ	1	50				
84	Breeding 2019	21/05/2019	1404	BZ	1	40				
85	Breeding 2019	04/06/2019	1709	BZ	1	20				
86	Breeding 2019	21/06/2019	1820	BZ	1	175				
87	Breeding 2019	04/07/2019	955	BZ	1	150				
88	Breeding 2019	14/08/2019	1100	BZ	2	175				
89	Breeding 2019	26/08/2019	1650	BZ	1	175				
90	Breeding 2019	16/04/2019	1221	BZ	1	60				
91	Breeding 2019	16/04/2019	1234	BZ	1					
92	Breeding 2019	22/04/2019	1324	BZ	1	40				
93	Breeding 2019	23/04/2019	847	BZ	1	40				
94	Breeding 2019	08/05/2019	1322	BZ	1	15				
95	Breeding 2019	08/05/2019	1333	BZ	1	15				
96	Breeding 2019	08/05/2019	1333	BZ	1	15				
97	Breeding 2019	08/05/2019	1333	BZ	1	20				
98	Breeding 2019	08/05/2019	1339	BZ	1	20				
99	Breeding 2019	08/05/2019	1422	BZ	1	20				
100	Breeding 2019	21/05/2019	1509	BZ	1	50				
101	Breeding 2019	21/05/2019	1607	BZ	1	35				
102	Breeding 2019	21/05/2019	1607	BZ	1	40				
103	Breeding 2019	21/05/2019	1608	BZ	1	20				
104	Breeding 2019	25/07/2019	950	BZ	1	175				
105	Breeding 2019	16/08/2019	1250	BZ	1	175				

106	Breeding 2019	16/08/2019	1330	BZ	1	50				
107	Breeding 2019	16/08/2019	1430	BZ	1	175				
108	Breeding 2019	16/04/2019	1635	BZ	1	40				
109	Breeding 2019	16/04/2019	1644	BZ	3	60				
110	Breeding 2019	16/04/2019	1702	BZ	1	15				
111	Breeding 2019	16/04/2019	1737	BZ	1					
112	Breeding 2019	23/04/2019	1107	BZ	1	5				
113	Breeding 2019	23/04/2019	1315	BZ	1	60				
114	Breeding 2019	23/04/2019	1318	BZ	1	60				
115	Breeding 2019	23/04/2019	1333	BZ	1	80				
116	Breeding 2019	23/04/2019	1336	BZ	1	60				
117	Breeding 2019	16/05/2019	1548	BZ	1	20				
118	Breeding 2019	24/05/2019	1439	BZ	1	30	20-80			
119	Breeding 2019	24/05/2019	1554	BZ	2	40	30-150			
120	Breeding 2019	24/05/2019	1612	BZ	1	40	30-60			
121	Breeding 2019	24/05/2019	1624	BZ	1	200	80-200			
122	Breeding 2019	24/05/2019	1641	BZ	1	30	25-30			
123	Breeding 2019	24/05/2019	1656	BZ	1	25	25-5			
124	Breeding 2019	24/05/2019	1721	BZ	1	40	30-40			
125	Breeding 2019	04/06/2019	1424	BZ	1	15				
126	Breeding 2019	27/06/2019	1355	BZ	2	175				
127	Breeding 2019	27/06/2019	1525	BZ	1	175				
128	Breeding 2019	10/07/2019	1305	BZ	1	175	150-175			
129	Breeding 2019	16/08/2019	1040	BZ	1	10				
130	Breeding 2019	29/08/2019	1418	BZ	1	50				

131	Breeding 2019	29/08/2019	1422	BZ	1	20				
132	Breeding 2019	29/08/2019	1435	BZ	2	30				
133	Breeding 2019	16/04/2019	1421	BZ	1	20				
134	Breeding 2019	16/04/2019	1432	BZ	2	40				
135	Breeding 2019	16/04/2019	1440	BZ	1	40				
136	Breeding 2019	16/04/2019	1458	BZ	1	30				
137	Breeding 2019	16/04/2019	1512	BZ	1	70				
138	Breeding 2019	23/04/2019	1200	BZ	2	30	10-40			
139	Breeding 2019	16/05/2019	1429	BZ	1	80				
140	Breeding 2019	16/05/2019	1540	BZ	1	20				
141	Breeding 2019	16/05/2019	1604	BZ	1	100				
142	Breeding 2019	16/05/2019	1616	BZ	1	50				
143	Breeding 2019	16/05/2019	1624	BZ	1	120				
144	Breeding 2019	16/05/2019	1629	BZ	1	120				
145	Breeding 2019	16/05/2019	1743	BZ	1	80				
146	Breeding 2019	16/05/2019	1807	BZ	1	30				
147	Breeding 2019	16/05/2019	1807	BZ	1	80				
148	Breeding 2019	24/05/2019	1112	BZ	1	20	20			
149	Breeding 2019	24/05/2019	1125	BZ	1	30	20-30			
150	Breeding 2019	24/05/2019	1125	BZ	1	70	30-200			
151	Breeding 2019	24/05/2019	1129	BZ	2	150	150-180			
152	Breeding 2019	24/05/2019	1143	BZ	1	50	30-50			
153	Breeding 2019	24/05/2019	1151	BZ	1	60	60-20			
154	Breeding 2019	24/05/2019	1157	BZ	1	30	30			
155	Breeding 2019	24/05/2019	1238	BZ	2	40	20-40			

156	Breeding 2019	24/05/2019	1258	BZ	2	60	40-180			
157	Breeding 2019	24/05/2019	1323	BZ	1	50	30-120			
158	Breeding 2019	24/05/2019	1338	BZ	1	10	7-10			
159	Breeding 2019	24/05/2019	1344	BZ	2	40	20-40			
160	Breeding 2019	10/06/2019	1434	BZ	1	60				
161	Breeding 2019	10/06/2019	1452	BZ	1	20				
162	Breeding 2019	10/06/2019	1454	BZ	1	15				
163	Breeding 2019	10/06/2019	1454	BZ	1	20				
164	Breeding 2019	27/06/2019	1013	BZ	1	175				
165	Breeding 2019	04/07/2019	1115	BZ	1	100				
166	Breeding 2019	04/07/2019	1225	BZ	1	100				
167	Breeding 2019	04/07/2019	1305	BZ	1	175				
168	Breeding 2019	04/07/2019	1342	BZ	1					
169	Breeding 2019	04/07/2019	1410	BZ	1	175				
171	Breeding 2019	16/07/2019	1212	BZ	1	175				
172	Breeding 2019	16/07/2019	1355	BZ	1	175				
173	Breeding 2019	14/08/2019	1250	BZ	1	75				
174	Breeding 2019	14/08/2019	1500	BZ	3	175				
175	Breeding 2019	14/08/2019	1510	BZ	2	150				
176	Breeding 2019	14/08/2019	1520	BZ	2	100				
177	Breeding 2019	27/08/2019	945	BZ	1	175				
178	Breeding 2019	27/08/2019	1030	BZ	2	20				
179	Non-breeding 2019-20	11/12/2019	1110	BZ	1	60	50-75			travelling
180	Non-breeding 2019-20	25/02/2020	955	BZ	1	20	20			travelling

181	Non-breeding 2019-20	25/02/2020	1135	BZ	1	100	100-150			hunting
182	Non-breeding 2019-20	30/10/2019	1020	BZ	1	50	20-50			
183	Non-breeding 2019-20	15/11/2019	1315	BZ	1	50	50			
184	Non-breeding 2019-20	28/11/2019	900	BZ	1					
186	Non-breeding 2019-20	23/12/2019	920	BZ	1	25	20-30			hunting
187	Non-breeding 2019-20	23/12/2019	925	BZ	1	25	20-30			hunting
188	Non-breeding 2019-20	23/12/2019	955	BZ	1	25	20-30			hunting
189	Non-breeding 2019-20	14/02/2020	1533	BZ	1	100	75-100			hunting
190	Non-breeding 2019-20	10/03/2020	1100	BZ	1	50	10-50			hunting
191	Non-breeding 2019-20	10/03/2020	1119	BZ	1	50	50			hunting
192	Non-breeding 2019-20	16/10/2019	1235	BZ	2	75	50-75			
193	Non-breeding 2019-20	16/10/2019	1350	BZ	1	20	20			
194	Non-breeding 2019-20	10/10/2019	1320	BZ	1	50	50-5			
195	Non-breeding 2019-20	15/11/2019	840	BZ	1					
196	Non-breeding 2019-20	15/11/2019	940	BZ	2					
197	Non-breeding 2019-	15/11/2019	1025	BZ	1	20	20			

	20									
198	Non-breeding 2019-20	28/11/2019	1200	BZ	1	15	15			
199	Non-breeding 2019-20	28/11/2019	1205	BZ	1	15	15			
200	Non-breeding 2019-20	28/11/2019	1315	BZ	1	150	100-180			
201	Non-breeding 2019-20	28/11/2019	1317	BZ	1	150	150			
202	Non-breeding 2019-20	13/12/2019	1200	BZ	1					
203	Non-breeding 2019-20	23/12/2019	1145	BZ	1	100	50-150			hunting
204	Non-breeding 2019-20	23/12/2019	1215	BZ	1	75	50-100			hunting
205	Non-breeding 2019-20	10/01/2020	1335	BZ	1	75	5-75			hunting
206	Non-breeding 2019-20	10/01/2020	1415	BZ	1	100	50-150			hunting
207	Non-breeding 2019-20	10/01/2020	1425	BZ	1	100	25-100			hunting
208	Non-breeding 2019-20	14/02/2020	1100	BZ	1	50	40-50			hunting
209	Non-breeding 2019-20	14/02/2020	1113	BZ	1	50	50-100			hunting
210	Non-breeding 2019-20	14/02/2020	1117	BZ	2	50	50-75			circling
211	Non-breeding 2019-20	14/02/2020	1133	BZ	1	100	75-100			hunting
212	Non-breeding 2019-20	14/02/2020	1206	BZ	1	100	75-100			hunting

213	Non-breeding 2019-20	14/02/2020	1228	BZ	1	100	75-100			travelling
214	Non-breeding 2019-20	14/02/2020	1245	BZ	1	100	75-100			travelling
215	Non-breeding 2019-20	26/02/2020	1238	BZ	1	100	100-120			travelling
216	Non-breeding 2019-20	26/02/2020	1242	BZ	1	100	75-100			hunting
217	Non-breeding 2019-20	26/02/2020	1443	BZ	1	50	50-100			hunting
218	Non-breeding 2019-20	26/02/2020	1519	BZ	2	75	50-75			circling
219	Non-breeding 2019-20	10/03/2020	1344	BZ	1	50	50-100			hunting
220	Non-breeding 2019-20	10/03/2020	1351	BZ	2	50	50-175			circling
221	Non-breeding 2019-20	10/03/2020	1359	BZ	1	50	50-100			circling
222	Non-breeding 2019-20	10/03/2020	1441	BZ	1	50	50-75			travelling
223	Non-breeding 2019-20	10/03/2020	1525	BZ	3	50	50-175			circling
224	Non-breeding 2019-20	10/03/2020	1612	BZ	1	50	50-175			travelling
225	Non-breeding 2019-20	01/10/2019	1240	BZ	1	0				
226	Non-breeding 2019-20	01/10/2019	1335	BZ	1	50	50-100			
227	Non-breeding 2019-20	01/10/2019	1445	BZ	1	50	20-50			
228	Non-breeding 2019-	01/10/2019	1550	BZ	1	0				

	20									
229	Non-breeding 2019-20	14/10/2019	1455	BZ	1	25	25			
230	Non-breeding 2019-20	14/10/2019	1520	BZ	1	30	25-30			
231	Non-breeding 2019-20	29/10/2019	1225	BZ	1	75	50-100			
232	Non-breeding 2019-20	29/10/2019	1410	BZ	1	50	50			
233	Non-breeding 2019-20	27/11/2019	1300	BZ	1	20	10-20			
234	Non-breeding 2019-20	11/12/2019	1140	BZ	1					
235	Non-breeding 2019-20	11/12/2019	1215	BZ	1	20	10-25			travelling
236	Non-breeding 2019-20	24/01/2020	1250	BZ	1	15	10-15			travelling
237	Non-breeding 2019-20	24/01/2020	1335	BZ	1					calling
238	Non-breeding 2019-20	24/01/2020	1400	BZ	1	15	10-15			travelling
239	Non-breeding 2019-20	24/01/2020	1425	BZ	1	15	10-15			travelling
240	Non-breeding 2019-20	24/01/2020	1540	BZ	1					calling
241	Non-breeding 2019-20	13/02/2020	1307	BZ	1	100	50-100			circling
242	Non-breeding 2019-20	13/02/2020	1310	BZ	1	100	50-100			circling
243	Non-breeding 2019-20	13/02/2020	1412	BZ	1	25	25			travelling

244	Non-breeding 2019-20	25/02/2020	1225	BZ	1	0				travelling
245	Non-breeding 2019-20	25/02/2020	1447	BZ	1	100	25-100			circling
246	Non-breeding 2019-20	25/02/2020	1450	BZ	1	50	25-50			circling
247	Breeding 2020	20/03/2020	1637	BZ	1	40	20-60	M	AD	Travelling
248	Breeding 2020	21/04/2020	1003	BZ	2	50	50-75			travelling
249	Breeding 2020	21/04/2020	1150	BZ	2	50	50-175			hunting
250	Breeding 2020	27/04/2020	942	BZ	4	100	100-150			circling
251	Breeding 2020	27/04/2020	954	BZ	2	75	75-100			circling
252	Breeding 2020	05/05/2020	914	BZ	1	60	40-60			hunting
253	Breeding 2020	05/05/2020	919	BZ	1	50	50-100			hunting
254	Breeding 2020	05/05/2020	1103	BZ	1	70	50-70			travelling
255	Breeding 2020	21/05/2020	1053	BZ	1	100	25-150			hunting
256	Breeding 2020	09/06/2020	1748	BZ	1	75	75-100			travelling
257	Breeding 2020	28/07/2020	1313	BZ	1	75	75-175			hunting
258	Breeding 2020	28/07/2020	1340	BZ	1	75	75-100			hunting
260	Breeding 2020	20/03/2020	1207	BZ	1	30	30-50	M	AD	Travelling
261	Breeding 2020	22/04/2020	959	BZ	1	100	25-175			travelling
262	Breeding 2020	22/04/2020	1106	BZ	1	100	25-175			travelling
263	Breeding 2020	28/04/2020	1031	BZ	1	75	75-100			travelling
264	Breeding 2020	28/04/2020	1034	BZ	2	100	100-175			circling
265	Breeding 2020	28/04/2020	1047	BZ	1	100	100-150			circling
266	Breeding 2020	28/04/2020	1113	BZ	1	75	75-100			circling
267	Breeding 2020	06/05/2020	1050	BZ	1	60	40-60			travelling

268	Breeding 2020	29/05/2020	1026	BZ	1	45	40-50			circling
269	Breeding 2020	29/05/2020	1253	BZ	1	30	20-40			circling
270	Breeding 2020	10/06/2020	1700	BZ	1	10	10-25			hunting
271	Breeding 2020	20/07/2020	1108	BZ	1	50	75-100			hunting
272	Breeding 2020	20/07/2020	1128	BZ	1	50	50-100			hunting
273	Breeding 2020	29/07/2020	800	BZ	1	15	10-15			travelling
274	Breeding 2020	21/08/2020	1246	BZ	1	50	25-50			hunting
275	Breeding 2020	27/03/2020	1152	BZ	1	100	100-150	F	AD	Soaring
276	Breeding 2020	22/04/2020	1200	BZ	1	25	20-25			hunting
277	Breeding 2020	22/04/2020	1259	BZ	1	50	15-50			hunting
278	Breeding 2020	22/04/2020	1350	BZ	1	150	150-175			travelling
279	Breeding 2020	22/04/2020	1431	BZ	1	75	20-75			hunting
280	Breeding 2020	28/04/2020	1321	BZ	1	30	20-30			travelling
281	Breeding 2020	28/04/2020	1348	BZ	1	50	20-50			circling
282	Breeding 2020	06/05/2020	1221	BZ	1	10	5-10			travelling
283	Breeding 2020	06/05/2020	1347	BZ	2	100	100-150			circling
284	Breeding 2020	27/05/2020	1322	BZ	1	100	100-150			hunting
285	Breeding 2020	27/05/2020	1335	BZ	1	75	75-100			hunting
286	Breeding 2020	27/05/2020	1343	BZ	1	75	75-100			hunting
287	Breeding 2020	27/05/2020	1406	BZ	1	75	75-100			hunting
288	Breeding 2020	27/05/2020	1409	BZ	2	75	75-100			hunting/circling
289	Breeding 2020	27/05/2020	1446	BZ	5	100	100-200			circling
290	Breeding 2020	27/05/2020	1500	BZ	5	75	75-100			circling
291	Breeding 2020	27/05/2020	1525	BZ	2	75	75-100			circling
292	Breeding 2020	10/06/2020	1341	BZ	2	100	100-175			circling

293	Breeding 2020	10/06/2020	1350	BZ	1	75	75-150			circling
294	Breeding 2020	10/06/2020	1355	BZ	1	50	50-150			hunting
295	Breeding 2020	10/06/2020	1408	BZ	3	100	100-175			circling
296	Breeding 2020	10/06/2020	1417	BZ	1	50	50-100			travelling
297	Breeding 2020	10/06/2020	1440	BZ	1	50	50-75			hunting
298	Breeding 2020	10/06/2020	1504	BZ	1	100	100-120			hunting
299	Breeding 2020	10/06/2020	1520	BZ	1	75	75-100			hunting
300	Breeding 2020	10/06/2020	1526	BZ	1	100	100-200			circling
301	Breeding 2020	24/06/2020	1509	BZ	1	50	50-150			circling
302	Breeding 2020	24/06/2020	1518	BZ	1	100	100-150			circling
303	Breeding 2020	20/07/2020	1349	BZ	1	100	100-120			hunting
304	Breeding 2020	20/07/2020	1432	BZ	1	120	120-150			hunting
305	Breeding 2020	29/07/2020	1325	BZ	2	100	100-150			hunting
306	Breeding 2020	07/08/2020	1354	BZ	1	75	75-100			travelling
307	Breeding 2020	07/08/2020	1413	BZ	1	100	100-150			hunting
308	Breeding 2020	07/08/2020	1459	BZ	1	75	75-100			hunting
309	Breeding 2020	07/08/2020	1527	BZ	2	100	100-150			hunting
310	Breeding 2020	14/08/2020	1325	BZ					Juv.	perched
311	Breeding 2020	14/08/2020	1345	BZ	2	50	50-150			hunting
312	Breeding 2020	27/03/2020	1348	BZ	1	100	100-150	F	AD	Soaring
313	Breeding 2020	27/03/2020	1412	BZ	3	60	60-100	2M+F	AD	Soaring
314	Breeding 2020	27/03/2020	1505	BZ	1	100	100-150	M	AD	Soaring
315	Breeding 2020	21/04/2020	1424	BZ	1	150	150-175			travelling
316	Breeding 2020	27/04/2020	1308	BZ	2	100	100-150			circling
317	Breeding 2020	27/04/2020	1435	BZ	1	75	25-75			circling

318	Breeding 2020	27/04/2020	1435	BZ	2	75	75-175			circling
319	Breeding 2020	05/05/2020	1430	BZ	3	50	50-150			circling
320	Breeding 2020	21/05/2020	1224	BZ	1	100	100-150			circling
321	Breeding 2020	21/05/2020	1234	BZ	1	100	100-150			circling
322	Breeding 2020	21/05/2020	1252	BZ	2	50	50-100			circling
323	Breeding 2020	21/05/2020	1326	BZ	2	50	50-100			circling
324	Breeding 2020	21/05/2020	1411	BZ	2	100	100-150			circling
325	Breeding 2020	21/05/2020	1427	BZ	1	75	25-75			hunting
326	Breeding 2020	09/06/2020	1343	BZ	1	50	50-175			circling
327	Breeding 2020	09/06/2020	1424	BZ	1	50	50-75			hunting
328	Breeding 2020	09/06/2020	1433	BZ	1	175	>175			circling
329	Breeding 2020	09/06/2020	1513	BZ	1	50	50-100			hunting
330	Breeding 2020	09/06/2020	1604	BZ	3	50	50-175			circling
331	Breeding 2020	22/06/2020	1020	BZ	1	50	25-50			travelling
332	Breeding 2020	22/06/2020	1023	BZ	1	50	25-50			hunting
333	Breeding 2020	22/06/2020	1039	BZ	1	10	5-10			travelling
334	Breeding 2020	17/07/2020	1055	BZ	1	50	50-75			travelling
335	Breeding 2020	17/07/2020	1106	BZ	2	100	100-120			hunting
336	Breeding 2020	17/07/2020	1115	BZ	2	50	50-150			hunting
337	Breeding 2020	28/07/2020	910	BZ	1	50	25-50			travelling
338	Breeding 2020	28/07/2020	1008	BZ	1	100	100-150			hunting
339	Breeding 2020	28/07/2020	1035	BZ	1	50	50-75			hunting
340	Breeding 2020	28/07/2020	1053	BZ	1	50	50-75			hunting
341	Breeding 2020	10/08/2020	1304	BZ	1	20	20-25			travelling
342	Breeding 2020	10/08/2020	1400	BZ	1					perched

343	Breeding 2020	17/08/2020	1150	BZ	1				Juv.	perched
344	Breeding 2020	17/08/2020	1157	BZ	2	30	20-30			travelling
345	Breeding 2020	24/08/2020	1248	BZ	9	150	150-200			circling
346	Breeding 2020	24/08/2020	1343	BZ	1					heard
347	Breeding 2020	24/08/2020	1354	BZ	4	100	25-100			circling
348	Breeding 2020	24/08/2020	1440	BZ	1					heard

Table A5.4.10: Buzzard flights

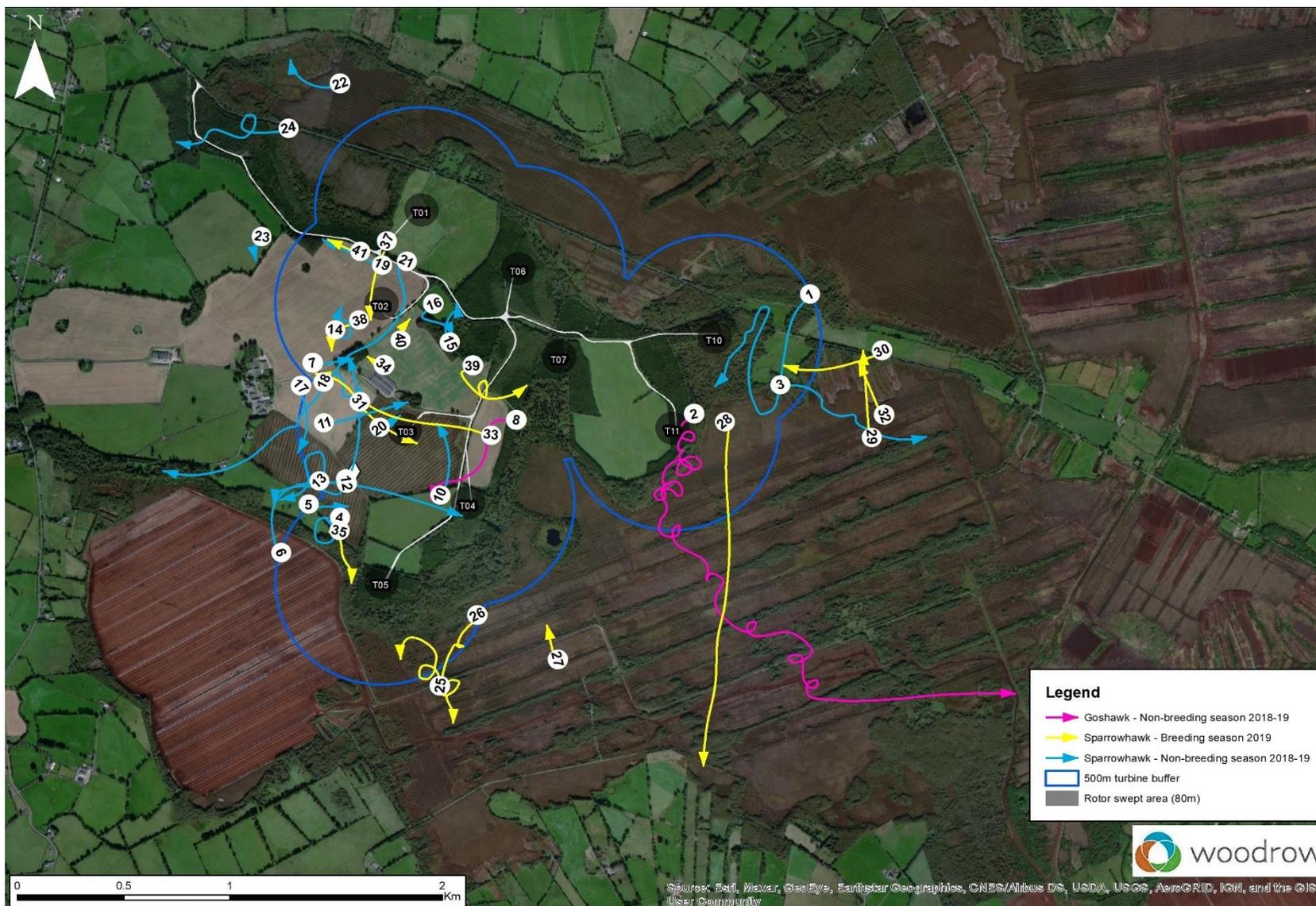


Figure A5.4.18: Sparrowhawk & goshawk flights in Year 1: Oct-2018 to Aug-2019

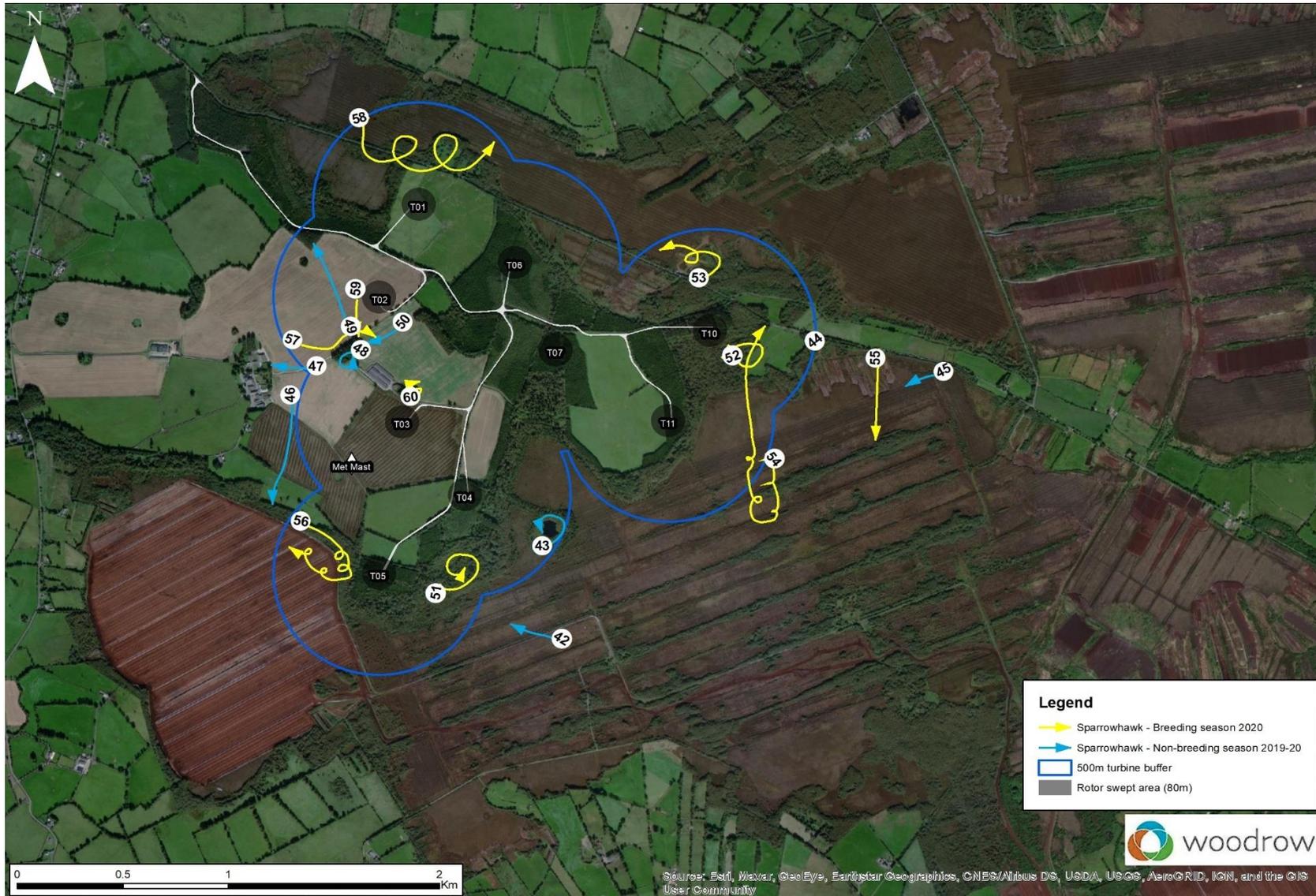


Figure A5.4.19: Sparrowhawk & goshawk flights in Year 2: Oct-2019 to Aug-2020

Map reference	Season	Date	Time	BTO Code	No. of birds	Height (m)	Flight height range	Sex	Age	Behaviour
1	Non-breeding 2018-19	13/11/2018	1113	SH	1	20				
2	Non-breeding 2018-19	28/01/2019	1216	GI	1	50				
3	Non-breeding 2018-19	08/02/2019	1030	SH	1	10				
4	Non-breeding 2018-19	26/11/2018	1007	SH	1	2				
5	Non-breeding 2018-19	26/11/2018	1020	SH	1	2				
6	Non-breeding 2018-19	26/11/2018	1043	SH	1	20				
7	Non-breeding 2018-19	07/12/2018	1426	SH	1	2				
8	Non-breeding 2018-19	17/12/2018	1207	GI	1	10				
9	Non-breeding 2018-19	17/01/2019	1438	SH	1	5				
10	Non-breeding 2018-19	17/01/2019	1458	SH	1	15				
11	Non-breeding 2018-19	17/01/2019	1534	SH	1	1				
12	Non-breeding 2018-19	04/02/2019	1414	SH	1	12				
13	Non-breeding 2018-19	04/02/2019	1415	SH	1	10				
14	Non-breeding 2018-19	26/02/2019	1315	SH	1	35				
15	Non-breeding 2018-19	25/10/2018	1316	SH	1	30				

16	Non-breeding 2018-19	25/10/2018	1318	SH	1	40				
17	Non-breeding 2018-19	27/11/2018	1502	SH	1	15				
18	Non-breeding 2018-19	07/12/2018	944	SH	2	20				
19	Non-breeding 2018-19	07/12/2018	1041	SH	1	1				
20	Non-breeding 2018-19	07/12/2018	1116	SH	1	20				
21	Non-breeding 2018-19	21/12/2018	1121	SH	1	120				
22	Non-breeding 2018-19	03/01/2019	946	SH	1	40	40			flying
23	Non-breeding 2018-19	03/01/2019	1142	SH	1	5	2-8			flying
24	Non-breeding 2018-19	04/02/2019	1147	SH	1	10				
25	Breeding 2019	04/07/2019	930	SH	1	150				
26	Breeding 2019	04/07/2019	1015	SH	1	100				
27	Breeding 2019	14/08/2019	1115	SH	1	10				
28	Breeding 2019	25/03/2019	1300	SH	1	2				
29	Breeding 2019	10/07/2019	915	SH	1	10	0-10	M		
30	Breeding 2019	25/07/2019	1045	SH	1	50				
31	Breeding 2019	25/07/2019	1230	SH	1	15				
32	Breeding 2019	16/08/2019	1355	SH	1	15				
33	Breeding 2019	19/03/2019	1818	SH	1	15				
34	Breeding 2019	10/07/2019	1255	SH	1	100	100			
35	Breeding 2019	16/08/2019	910	SH	1	50				

37	Breeding 2019	16/07/2019	1325	SH	1	15				
38	Breeding 2019	16/07/2019	1340	SH	1	10				
39	Breeding 2019	14/08/2019	1350	SH	1	175				
40	Breeding 2019	27/08/2019	920	SH	1	20				
41	Breeding 2019	27/08/2019	1140	SH	1	20				
42	Non-breeding 2019-20	14/11/2019	945	SH	1	10	5-10	F		
43	Non-breeding 2019-20	13/02/2020	957	SH	1	100	100-150	F		circling
44	Non-breeding 2019-20	30/10/2019	1010	SH	1	25	25			
45	Non-breeding 2019-20	23/12/2019	1000	SH	1	15	10-20	F		hunting
46	Non-breeding 2019-20	16/10/2019	1345	SH	1	75	75			
47	Non-breeding 2019-20	14/10/2019	1405	SH	1	25	25			
48	Non-breeding 2019-20	14/10/2019	1440	SH	2	50	25-50			
49	Non-breeding 2019-20	27/11/2019	1435	SH	1	20	20	F		
50	Non-breeding 2019-20	25/02/2020	1405	SH	1	25	20-25	F		travelling
51	Breeding 2020	27/04/2020	927	SH	1	75	75-100	F		circling
52	Breeding 2020	22/04/2020	1028	SH	1	50	25-50	F		circling
53	Breeding 2020	22/04/2020	1036	SH	1	80	80-100	F		circling
54	Breeding 2020	29/05/2020	1147	SH	1	30	25-40	F		
55	Breeding 2020	10/06/2020	1745	SH	1	50	25-50	M	AD	travelling
56	Breeding 2020	22/04/2020	1215	SH	1	75	75-175	F		travelling

57	Breeding 2020	27/03/2020	1444	SH	1	2	2-10	F	AD	Hunting
58	Breeding 2020	27/03/2020	1537	SH	2	100	100-150	M+F	AD	Soaring
59	Breeding 2020	27/04/2020	1425	SH	1	10	10-15			travelling
60	Breeding 2020	24/08/2020	1330	SH	1	50	50-75			hunting

Table A5.4.11: Sparrowhawk & goshawk flights

